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  jar/io/netty/internal/tnative/CertificateCallbackTask.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
  jar/io/netty/internal/tnative/SSLPrivateKeyMethodTask.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
  jar/io/netty/internal/tnative/SSLPrivateKeyMethodDecryptTask.java
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  jar/io/netty/internal/tnative/SSLPrivateKeyMethod.java
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  jar/io/netty/internal/tnative/SSLTask.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
  jar/io/netty/internal/tnative/CertificateVerifierTask.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
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*/opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-jar/io/netty/internal/tcnative/Library.java
*/opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-jar/io/netty/internal/tcnative/Buffer.java
*/opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-jar/io/netty/internal/tcnative/SSL.java
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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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  jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tcnative-boringssl-static-2-0-30-final-sources-4-
  jar/io/netty/internal/tcnative/SniHostNameMatcher.java
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  jar/io/netty/internal/tcnative/CertificateCallback.java

1.3 jackson-mapper-asl 1.5.0
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  jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.4 ng-slider 2.1.5
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* /opt/ws_local/PERMITS_SQL/1094801526_1601320082.61/0/wildfly-elytron-base-1-11-4-final-sources-jar/org/wildfly/security/WildFlyElytronHttpBasicProvider.java
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1.11 sortedcontainers 2.3.0
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1.12 multiregexp 0.5.1_8

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  <artifactId>multiregexp</artifactId>
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    Library to search/match/tokenize using many regular expression all at once with greater performance.
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      <email>paul.masurel@gmail.com</email>
      <url>http://fulmicoton.com</url>
    </developer>
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* /opt/cola/permits/1076235036_1613474097.95/0/multiregexp-0-5-1-jar/META-INF/maven/com.fulmicoton/multiregexp/pom.xml

1.13 cracklib 2.9.0 11.el7

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Also add information on how to contact you by electronic and paper
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You should also get your employer (if you work as a programmer) or
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school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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library 'Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
"r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
------------------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> =20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...
> My apologies for not chiming in in anything resembling a reasonable time frame.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:

>> In any case, I thank you both for working on sorting this out.
>
>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-----------
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 11cOcX-0004Qt-6L
for nneul@neulinger.org: Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFEB6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde= r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not-two GPL-2 ... it was a modified artistic license ... i didn't notice the license=20 change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. it isn't the place of =
library to dictact to application writes what license they should be using. thus LGPL-2.1 enters to fill this void.

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
point,
> > it was enough to just get it consistent and documented as to what
it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> >
> > the original license (before moving to sourceforge -- aka, 2.7) was
not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
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> >
> > unlike the old license, GPL-2 prevents people from using cracklib
unless their applications are also GPL-2 which imo is just wrong, it isn't the place of a library to dictate to application what license they should be using.

thus LGPL-2.1 enters to fill this void.

>mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

---

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
timeframe.
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In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with the
original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 01 Oct 2007 09:59:50 -0700 (PDT)
   Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 11cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floewed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository tarballs? I have all the original discussion, but something succinct and self-contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.14 kexec-tools 2.0.4
1.14.1 Available under license:

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Version 2, June 1991

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when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
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The hypothetical commands 'show w' and 'show c' should show the appropriate
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be called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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1.15 wildfly-weld-jpa 19.1.0.Final
1.15.1 Available under license:
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1.19 bcprov-jdk15 1.46

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1.20 dbus-python 1.2.0-3

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1.21 diffutils 3.3-3

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* */
/**
* Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
* *
* @param messageContext the current message context


The security token profiles currently supported are:

- Web Services Security UsernameToken Profile 1.1
- Web Services Security SAML Token Profile 1.1
- Web Services Security X.509 Certificate Token Profile 1.1
- Web Services Security Kerberos Token Profile 1.1
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* /opt/cola/permits/1136414686_1613765436.75/0/opens-ws-1-5-4-sources-1-jar/org/opensaml/ws/wstrust/Entropy.java
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*/
/**
 * Gets whether the transport represents a confidential connection (e.g. an SSL connection).
 * @return whether the transport represents a confidential connection
 */
/**
 * Sets whether the transport represents a confidential connection.
 * @param isConfidential whether the transport represents a confidential connection
 */

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Found in path(s):
* /opt/cola/permits/1136414686_1613765436.75/0/openws-1-5-4-sources-1-jar/schema/ws-trust-1.3.xsd

### 1.24 smallrye-config 1.6.2

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1.26 libcpuid 0.4.0

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1.27 log-rotate 3.13.0

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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
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  jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/AppletServer.java
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*/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/MapMaker.java
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*/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Bytecode.java
*/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/utils/MethodHandler.java
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1.45 wildfly-weld-spi 19.1.0.Final

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1.51 kerberos 1.12
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======================================================================

The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.56 hppc 0.7.1

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1.63 shadow 4.5-1.1

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  <xsl:param name="product.release.name"/>
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        <link rel="stylesheet" type="text/css" href="licenses.css"/>
      </head>
    </html>
    <body>

    </body>
  </xsl:template>
</xsl:stylesheet>
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<!-- Read matching templates -->

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<th>Package Version</th>
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</xsl:call-template>
</xsl:variable>
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</tr>
</xsl:for-each>
</table>
</xsl:template>

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  <xsl:output method="xml" indent="yes"/>
  <xsl:param name="fileList"/>
  <xsl:param name="fileSeparator"/>

  <xsl:template match="/"
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    <xsl:call-template name="tokenizeString">
      <xsl:with-param name="list" select="$fileList"/>
      <xsl:with-param name="delimiter" select="'$'"/>
    </xsl:call-template>
    <xsl:call-template name="endDocument"/>
  </xsl:template>

  <xsl:template name="tokenizeString">
    <!--passed template parameter -->
    <xsl:param name="list"/>
    <xsl:param name="delimiter"/>
    <xsl:choose>
      <xsl:when test="contains($list, $delimiter)">
        <xsl:call-template name="processFile">
          <!-- get everything in front of the first delimiter -->
          <xsl:with-param name="fileName" select="substring-before($list,$delimiter)"/>
        </xsl:call-template>
        <xsl:call-template name="tokenizeString">
          <!-- store anything left in another variable -->
          <xsl:with-param name="list" select="substring-after($list,$delimiter)"/>
          <xsl:with-param name="delimiter" select="$delimiter"/>
        </xsl:call-template>
      </xsl:when>
      <xsl:otherwise>
        <xsl:choose>
          <xsl:when test="$list = ''">
            <xsl:text/>
          </xsl:when>
          <xsl:otherwise>
            <xsl:call-template name="processFile">
              <!-- get everything in front of the first delimiter -->
              <xsl:with-param name="fileName" select="$list"/>
            </xsl:call-template>
          </xsl:otherwise>
        </xsl:choose>
      </xsl:otherwise>
    </xsl:choose>
  </xsl:template>
</xsl:stylesheet>
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    <xsl:param name="version"/>
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001
/*
minibz2
libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
*/

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mecab-ko-dic-2.0.3-20170922

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1.76 attr 2.4.47 r4

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This package was debianized by Nathan Scott nathans@debian.org on
Sun, 19 Nov 2000 07:37:09 -0500.

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/**
 * Encodes and decodes to and from Base64 notation.
 * <p>Example:</p>
 * <code>String encoded = Base64.encode( myByteArray );</code>
 * <br>
 * <code>byte[] myByteArray = Base64.decode( encoded );</code>
 * <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * <tt>encodeBytes( bytes, options )</tt> the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds,
* and encoding using the URL-safe and Ordered dialects.</p>

* <p>Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations should not add line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines by default.</p>

* <p>The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:</p>

* <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>

* <p>to compress the data before encoding it and then making the output have newline characters.</p>

* <p>Also...</p>

* <code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>

* 

<br/>

* Change Log:
* 

* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.</li>

* <li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.</li>

* <li>v2.3.5 - Fixed bug in {@link #encodeFromFile} where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.</li>

* <li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64 OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a class loader when using the method.</li>

* <li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException explicitly inline.</li>

* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using the {@link #encodeBytesToBytes(byte[])} family of methods (and not using the gzip options which uses a different mechanism with streams and stuff).</li>
<li>v2.3.1 - Added {@link #encodeBytesToBytes(byte[], int, int, int)} and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
<li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
* <ul>
* <li>Does not break lines, by default.</li>
* <li>This is to keep in compliance with</li>
* <li>Throws exceptions instead of returning null values.</li>
* <li>Because some operations</li>
* <li>(especially those that may permit the GZIP option) use IO streams, there</li>
* <li>is a possibility of an java.io.IOException being thrown. After some discussion and</li>
* <li>thought, I've changed the behavior of the methods to throw java.io.IOExceptions</li>
* <li>rather than return null if ever there's an error. I think this is more</li>
* <li>appropriate, though it will require some changes to your code. Sorry,</li>
* <li>it should have been done this way to begin with.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* <li>Shame on me. All I can say is sorry they were ever there.</li>
* <li>Throws NullPointerExceptions and IllegalArgumentExceptions as needed</li>
* <li>such as when passed arrays are null or offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.</li>
* <li>This was especially annoying before for people who were thorough in their</li>
* <li>own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
<li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug</li>
<li>when using very small files (~&lt; 40 bytes).</li>
<li>v2.2 - Added some helper methods for encoding/decoding directly from</li>
<li>one file to the next. Also added a main() method to support command line</li>
<li>encoding/decoding from one file to the next. Also added these Base64 dialects:</li>
<li><ol>
<li>The default is RFC3548 format.</li>
<li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates</li>
<li>URL and file name friendly format as described in Section 4 of RFC3548.</li>
<li><a href="http://www.faqs.org/rfcs/rfc3548.html"></a></li>
<li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates</li>
<li>URL and file name friendly format that preserves lexical ordering as described</li>
<li></li>
<li>for contributing the new Base64 dialects.</li>
<li></li>
<li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added</li>
<li>some convenience methods for reading and writing to and from files.</li>
<li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the
  encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options.
  Now everything is more consolidated and cleaner. The code now detects
  when data that's being decoded is gzip-compressed and will decompress it
  automatically. Generally things are cleaner. You'll probably have to
  change some method calls that you were making to support the new
  options format (<tt>int</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a
  byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.</li>
* Added the ability to "suspend" encoding in the Output Stream so
  you can turn on and off the encoding if you need to embed base64
  data in an otherwise "normal" stream (like an XML file).</li>
* <li>v1.5 - Output stream passes on flush() command but doesn't do anything itself.
  This helps when using GZIP streams.
  Added the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
  where last buffer being read, if not completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>

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@author rob@iharder.net
@version 2.3.7
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* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-
  jar/com/twitter/chill/java/ArraysAsListSerializer.java
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  jar/com/twitter/chill/ResourcePool.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-jar/com/twitter/chill/SerDeState.java
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jar/com/twitter/chill/java/UnmodifiableListSerializer.java
* /opt/cola/permits/1112810415_1607255970.47/0/chill-java-0-7-6-sources-2-
1.80 log-rotate 3.8.7 2ubuntu2.16.04.2

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- cmd/krb5/slave/kpropd_rpc.c
- lib/gss_mechs/mech_krb5/et/kdb5_err.c
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- lib/gss_mechs/mech_spnego/mech/spnego_mech.c
- lib/krb5/kadm5/kadm_host_srv_names.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
and the initial implementation of incremental propagation, including
the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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1.99 paramiko 1.15.2

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#
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#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
  db eval {
    CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
       TEXT NOT NULL DEFAULT ",t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT ",b_blob
       BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
       DEFAULT 0);
    CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
       NOT NULL,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')),d_date DATE NOT
       NULL,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')),i_parent INTEGER,
       t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
    CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
       rd_doctransaction_id INTEGER NOT NULL,i_object_id INTEGER NOT NULL,t_object_table TEXT NOT
       NULL,t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')),t_sqlorder TEXT NOT NULL
       DEFAULT ");
    CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
       rd_doctransaction_id INTEGER NOT NULL,t_message TEXT NOT NULL DEFAULT ",t_popup VARCHAR(1)
       DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
    CREATE TABLE unit(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
       NULL,t_symbol TEXT NOT NULL DEFAULT ",t_country TEXT NOT NULL DEFAULT ",t_type VARCHAR(1)
       NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')),t_internet_code TEXT NOT NULL
       DEFAULT ",i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source
       TEXT NOT NULL DEFAULT ");
    CREATE TABLE univalue(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_unit_id
       INTEGER NOT NULL,d_date DATE NOT NULL,f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));
    CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
       NULL,t_symbol TEXT NOT NULL DEFAULT ",t_country TEXT NOT NULL DEFAULT ",t_type VARCHAR(1)
       NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')),t_internet_code TEXT NOT NULL
       DEFAULT ",i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source
       TEXT NOT NULL DEFAULT ");
  }
}
(t_absolute IN ('Y', 'N')), rc_category_id_target INTEGER NOT NULL DEFAULT 0, t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')), t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN ('N', 'Y', 'C')));

CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, d_date DATE NOT NULL DEFAULT '0000-00-00', rd_operation_id INTEGER NOT NULL, i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0), t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')), t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')), i_auto_write VARCHAR(1) DEFAULT 'N' CHECK (i_auto_write IN ('Y', 'N')), i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days>=0), t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')), i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0), t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')), i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0);

CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'), t_fullname TEXT, rd_category_id INT, t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));

CREATE TABLE "account" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_number TEXT NOT NULL DEFAULT '', t_agency_number TEXT NOT NULL DEFAULT '', t_agency_address TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')), t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('C', 'D', 'A', 'I', 'L', 'W', 'O')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), rd_bank_id INTEGER NOT NULL);

CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'), t_fullname TEXT, rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);

CREATE TABLE vm_category_display_tmp(id INT, t_name TEXT, t_fullname TEXT, rd_category_id INT, t_bookmarked TEXT, i_NBOPERATIONS, f_REALCURRENTAMOUNT);

CREATE TABLE vm_budget_tmp(id INT, rc_category_id INT, t_including_subcategories TEXT, f_budgeted REAL, f_budgetedModified REAL, f_transferred REAL, i_year INT, i_month INT, t_CATEGORY, t_PERIOD, f_CURRENTAMOUNT, t_RULES);

CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date,rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year,i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||' ||parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||' ||node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id) END; END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id) END; END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (bank est utilis par account) Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account) Nom de la contrainte: fku_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget) Nom de la contrainte: fkd_budget_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkdc_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule) Nom de la contrainte: fkdc_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!'=' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!'=' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN DELETE FROM category WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par category)
Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!'=' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)
Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!'=' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!'=' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!'=' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransactionitem FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!'=' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fk_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransactionmsg_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN   DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (doctransaction est utilis par doctransactionmsg)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransactionmsg_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN   DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (doctransaction est utilis par doctransactionmsg)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fki_interesse_account_rd_account_id_id BEFORE INSERT ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (account est utilis par interesse)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interesse_account_rd_account_id_id BEFORE UPDATE ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interesse)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interesse_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN   DELETE FROM interesse WHERE interesse.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_interesse_account_rd_account_id_id BEFORE INSERT ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (account est utilis par interesse)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interesse_account_rd_account_id_id BEFORE UPDATE ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interesse)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interesse_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN   DELETE FROM interesse WHERE interesse.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_interesse_account_rd_account_id_id BEFORE INSERT ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (account est utilis par interesse)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interesse_account_rd_account_id_id BEFORE UPDATE ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interesse)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interesse_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN   DELETE FROM interesse WHERE interesse.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_interesse_payee_r_payee_id_id BEFORE INSERT ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (payee est utilis par interesse)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_interesse_payee_r_payee_id_id BEFORE UPDATE ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par interesse)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interesse_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN   DELETE FROM interesse WHERE interesse.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_interesse_payee_r_payee_id_id BEFORE INSERT ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (payee est utilis par interesse)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_interesse_payee_r_payee_id_id BEFORE UPDATE ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par interesse)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interesse_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN   DELETE FROM interesse WHERE interesse.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_interesse_payee_r_payee_id_id BEFORE INSERT ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (payee est utilis par interesse)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_interesse_payee_r_payee_id_id BEFORE UPDATE ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par interesse)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interesse_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN   DELETE FROM interesse WHERE interesse.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_interesse_payee_r_payee_id_id BEFORE INSERT ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (payee est utilis par interesse)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_interesse_payee_r_payee_id_id BEFORE UPDATE ON interesse FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par interesse)') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interesse_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN   DELETE FROM interesse WHERE interesse.rd_account_id = OLD.id; END;
BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id' WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id' WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON
operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation
est utilisé par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id' WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=''
AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON
operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation
est utilisé par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id' WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=''
AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON
recurrentoperation FOR EACH ROW BEGIN
UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON
operationbalance FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id' WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!=''
AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON
operationbalance FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilisé par operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id' WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!=''
AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation FOR
EACH ROW BEGIN
UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON
recurrentoperation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id' WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!=''
AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON
CREATE TRIGGER fkdc_operation_recurrence_operation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM recurrence_operation WHERE recurrence_operation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par suboperation) Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilisé par suboperation) Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par suboperation) Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par suboperation) Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;

CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilisé par suboperation) Nom de la contrainte: fki_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilisé par suboperation) Nom de la contrainte: fku_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;

CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW BEGIN UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;

CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unit) Nom de la contrainte: fki_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN "" ELSE (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN 'Monnaie' WHEN 'S' THEN 'Action' WHEN 'I' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE FROM unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE FROM v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT FROM v_unit_tmp2;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname WHERE unitvalue.rd_unit_id=v_unit_displayname.id)||" STRFTIME('%d/%m/%Y',d_date)" AS t_displayname FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND (T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation_tmp1 AS SELECT *, (SELECT t_name FROM payee s WHERE s.id=operation.r_payee_id) AS t_PAYEE, (SELECT TOTAL(s.f_value) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS f_QUANTITY, (SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;

CREATE VIEW v_operation AS SELECT *, (SELECT s.id FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP, (SELECT s.f_CURRENTAMOUNT FROM v_unit s WHERE s.id=v_operation_tmp1.rc_unit_id) AS f_CURRENTAMOUNT, (CASE WHEN v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE v_operation_tmp1.rd_account_id=a.id AND a.t_type<>"L") AND EXISTS (SELECT 1 FROM v_operation_tmp1 op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND a.t_type<>"L" AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY=v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;

CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||IFNULL(t_PAYEE,'')||' '||v_operation.f_CURRENTAMOUNT||' '||(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM v_operation;

CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n''êtes pas autoris\ to destroy this operation because it is related' END) t_delete_message FROM operation;

CREATE VIEW v_account AS SELECT *, (SELECT MAX(s.d_date) FROM interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;

CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n''êtes pas autoris\ to destroy this account because it contains related operations' END) t_delete_message FROM account;

CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;

CREATE VIEW v_account_displayname AS SELECT *, (SELECT t_displayname FROM v_bank_displayname WHERE account.rd_bank_id=v_bank_displayname.id)||'-'||t_name AS t_displayname FROM account;

CREATE VIEW v_bank AS SELECT *, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;

CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;

CREATE VIEW v_category AS SELECT * FROM category;

CREATE VIEW v_recurrentoperation AS SELECT *, i_period_increment||' '||(CASE t_period_unit WHEN 'Y' THEN 'anne(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS FROM recurrentoperation;

CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM v_recurrentoperation;

CREATE VIEW v_unitvalue_display AS SELECT *, IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE s2.id=unitvalue.rd_unit_id)),'') AS t_UNIT, STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATEMONTH, STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;

CREATE VIEW v_suboperation_display AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id),'') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id),'') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY || ' : ' || f_value AS t_displayname FROM v_suboperation;

CREATE VIEW v_suboperation_display_all AS SELECT *(SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY FROM v_suboperation_display WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT s.t_REFUND FROM v_suboperation_display WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Depense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK,STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id ) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;

CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';

CREATE VIEW v_unit_display AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;

CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name  AS t_BANK,bank.t_bank_number AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status!='N' AND s.t_template='N') AS f_CHECKED, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_COMING_SOON, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.d_date<=date('now') AND s.t_template='N') AS f_TODAYAMOUNT, (SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;
THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.tfullname like vm_category_display_tmp.t fullname%) THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN ' ' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN ' ' ELSE 'Revenu' END) AS t_TYPEEXPENSENLs FROM vm_category_display_tmp;

CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;

CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;

CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;

CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT  FROM interest;

CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;

CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Ngatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;

CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;

CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;

CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id),'') AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10 THEN '-0'||i_month ELSE '-'||i_month END)) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND (v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition='N' OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;

CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;

CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM vm_budget_tmp;

CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||''||t_PERIOD||''||f_budgeted_modified AS
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;

CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;

CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;

CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;

CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;

CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;

CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;

CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;

CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;

CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;

CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;

CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;

CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;

CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;

CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
tfullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name
END WHERE id=new.id;END;

CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR
rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE
c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;UPDATE category SET t_name=new.t_name
END WHERE id=new.id;END;

CREATE TRIGGER fkdc_category_update BEFORE UPDATE OF r_category_id ON category BEGIN
UPDATE category SET r_category_id=OLD.rd_category_id WHERE r_category_id=new.id;END;

CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;

explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
FROM v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
# The next test requires FTS4
if capable !fts3 {
  finish_test
  return
}

# Taken from the gnome-shell project
#
think_of_close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
  db eval {
    CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
    CREATE VIRTUAL TABLE fts USING fts4;
    CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
    CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER, "mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER, "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional" INTEGER, "mfo:optional:graph" INTEGER);
    CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
    CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
    CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
    CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL, "mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL, "mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL, "mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, "mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER, "mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL, "mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL, "mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER, "mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL, "mto:transferList" INTEGER NOT NULL, "mto:transferList:graph" INTEGER);
<table>
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<tr>
<th>CREATE TABLE &quot;mto:Transfer_mto:transferPrivacyLevel&quot; (ID INTEGER NOT NULL, &quot;mto:transferPrivacyLevel&quot; TEXT NOT NULL, &quot;mto:transferPrivacyLevel:graph&quot; INTEGER);</th>
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<tr>
<td>CREATE TABLE &quot;mto:UploadTransfer&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>CREATE TABLE &quot;mto:UploadTransfer_mto:transferCategory&quot; (ID INTEGER NOT NULL, &quot;mto:transferCategory&quot; TEXT NOT NULL, &quot;mto:transferCategory:graph&quot; INTEGER);</td>
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<td>CREATE TABLE &quot;http:ScanType&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<td>CREATE TABLE &quot;nao:Property&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;nao:propertyName&quot; TEXT COLLATE NOCASE, &quot;nao:propertyName:graph&quot; INTEGER, &quot;nao:propertyValue&quot; TEXT COLLATE NOCASE, &quot;nao:propertyValue:graph&quot; INTEGER);</td>
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<td>CREATE TABLE &quot;nao:Tag&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;nao:prefLabel&quot; TEXT COLLATE NOCASE, &quot;nao:prefLabel:graph&quot; INTEGER, &quot;nao:description&quot; TEXT COLLATE NOCASE, &quot;nao:description:graph&quot; INTEGER);</td>
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<td>CREATE TABLE &quot;nao:Tag_tracker:isDefaultTag&quot; (ID INTEGER NOT NULL, &quot;tracker:isDefaultTag&quot; INTEGER NOT NULL, &quot;tracker:isDefaultTag:graph&quot; INTEGER);</td>
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<td>CREATE TABLE &quot;nao:Tag_tracker:tagRelatedTo&quot; (ID INTEGER NOT NULL, &quot;tracker:tagRelatedTo&quot; INTEGER NOT NULL, &quot;tracker:tagRelatedTo:graph&quot; INTEGER);</td>
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<td>CREATE TABLE &quot;ncal:AccessClassification&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>CREATE TABLE &quot;ncal:Alarm&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:repeat&quot; INTEGER, &quot;ncal:repeat:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;ncal:AlarmAction&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:action&quot; INTEGER NOT NULL, &quot;ncal:action:graph&quot; INTEGER);</td>
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<td>CREATE TABLE &quot;ncal:Attachment&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:attachmentUri&quot; INTEGER, &quot;ncal:attachmentUri:graph&quot; INTEGER, &quot;ncal:fmttype&quot; TEXT COLLATE NOCASE, &quot;ncal:fmttype:graph&quot; INTEGER, &quot;ncal:encoding&quot; INTEGER, &quot;ncal:encoding:graph&quot; INTEGER, &quot;ncal:attachmentContent&quot; TEXT COLLATE NOCASE, &quot;ncal:attachmentContent:graph&quot; INTEGER);</td>
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<td>CREATE TABLE &quot;ncal:AttachmentEncoding&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<td>CREATE TABLE &quot;ncal:AttendeeOrOrganizer&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:dir&quot; INTEGER, &quot;ncal:dir:graph&quot; INTEGER, &quot;ncal:involvedContact&quot; INTEGER, &quot;ncal:involvedContact:graph&quot; INTEGER, &quot;ncal:sentBy&quot; INTEGER, &quot;ncal:sentBy:graph&quot; INTEGER);</td>
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<td>CREATE TABLE &quot;ncal:AttendeeRole&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>CREATE TABLE &quot;ncal:BydayRulePart&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<td>Table Name</td>
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<tr>
<td><code>ncal:BydayRulePart_ncal:bydayModifier</code></td>
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<tr>
<td><code>ncal:BydayRulePart_ncal:bydayWeekday</code></td>
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<td><code>ncal:CalendarDataObject</code></td>
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<td><code>ncal:CalendarScale</code></td>
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<td><code>ncal:CalendarUserType</code></td>
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<td><code>ncal:Component</code></td>
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<td><code>ncal:Date</code></td>
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<td><code>ncal:EventStatus</code></td>
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<td><code>ncal:Freebusy</code></td>
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<td><code>ncal:Freebusy_ncal:freebusy</code></td>
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<td><code>ncal:Journal</code></td>
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<td><code>ncal:JournalStatus</code></td>
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<td><code>ncal:NcalDateTime</code></td>
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<td><code>ncal:NcalTimeEntity</code></td>
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<td><code>ncal:Organizer</code></td>
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<td><code>ncal:ParticipationStatus</code></td>
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<tr>
<td><code>ncal:RecurrenceFrequency</code></td>
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<tr>
<td><code>ncal:RecurrenceIdentifier</code></td>
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CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:until" INTEGER, "ncal:until:graph" INTEGER,
"ncal:until:localDate" INTEGER, "ncal:until:localTime" INTEGER,
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE, "ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactGroupName" TEXT COLLATE NOCASE,
"nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT NULL,
"nco:containsContact" INTEGER NOT NULL,
"nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL,
"ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL,
"ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL,
"ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL,
"ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_medium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imStatusMessage" TEXT COLLATE NOCASE,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presenceLastModified" INTEGER,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified:localDate" INTEGER,
"nco:presenceLastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo:graph"
INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL,
"nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph"
INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY
KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL
PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY
KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER,
"nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER,
"nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph"
INTEGER, "nco:nameHonorificSuffix" TEXT COLLATE NOCASE,
"nco:nameHonorificSuffix:graph" INTEGER, "nco:nameHonorificPrefix"
TEXT COLLATE NOCASE, "nco:nameHonorificPrefix:graph" INTEGER,
"nco:hobby" TEXT COLLATE NOCASE, "nco:hobby:graph" INTEGER,
"nco:gender" INTEGER, "nco:gender:graph" INTEGER);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT
NULL, "nco:hasAffiliation" INTEGER NOT NULL,
"nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph"
INTEGER);
CREATE TABLE "nco:PostalAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:region" TEXT COLLATE NOCASE, "nco:region:graph" INTEGER,
"nco:country" TEXT COLLATE NOCASE, "nco:country:graph" INTEGER,
"nco:extendedAddress" TEXT COLLATE NOCASE,
"nco:extendedAddress:graph" INTEGER, "nco:addressLocation" INTEGER,
"nco:addressLocation:graph" INTEGER, "nco:streetAddress" TEXT COLLATE
NOCASE, "nco:streetAddress:graph" INTEGER, "nco:postcode" TEXT
COLLATE NOCASE, "nco:postcode:graph" INTEGER, "nco:locality" TEXT
COLLATE NOCASE, "nco:locality:graph" INTEGER, "nco:county" TEXT
COLLATE NOCASE, "nco:county:graph" INTEGER, "nco:district" TEXT
COLLATE NOCASE, "nco:district:graph" INTEGER, "nco:pobox" TEXT
COLLATE NOCASE, "nco:pobox:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url" INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
INTEGER, "nfo:rearChannels" INTEGER, "nfo:rearChannels:graph" INTEGER,
"nfo:gain" INTEGER, "nfo:gain:graph" INTEGER, "nfo:peakGain" INTEGER,
"nfo:peakGain:graph" INTEGER, "nfo:audioOffset" REAL,
"nfo:audioOffset:graph" INTEGER);
CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
"nfo:characterPosition" INTEGER, "nfo:characterPosition:graph" INTEGER,
"nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
"nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
"nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL,
"nfo:containsBookmark" INTEGER NOT NULL,
"nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL,
"nfo:containsBookmarkFolder" INTEGER NOT NULL,
"nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:originalLocation" TEXT COLLATE NOCASE,
"nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
"nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER,
"nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:tableOfContents" TEXT COLLATE NOCASE,
"nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph" INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER,
"nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER,
"nfo:equipmentSoftware" TEXT COLLATE NOCASE,
"nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileDataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:fileLastAccessed" INTEGER, "nfo:fileLastAccessed:graph" INTEGER,
"nfo:fileLastAccessed:localDate" INTEGER,
"nfo:fileLastAccessed:localTime" INTEGER, "nfo:fileCreated" INTEGER,
"nfo:fileCreated:graph" INTEGER, "nfo:fileCreated:localDate" INTEGER,
"nfo:fileCreated:localTime" INTEGER, "nfo:fileSize" INTEGER,
"nfo:fileSize:graph" INTEGER, "nfo:permissions" TEXT COLLATE NOCASE,
"nfo:permissions:graph" INTEGER, "nfo:fileName" TEXT COLLATE NOCASE,
"nfo:fileName:graph" INTEGER, "nfo:hasHash" INTEGER,
"nfo:hasHash:graph" INTEGER, "nfo:fileOwner" INTEGER,
"nfo:fileOwner:graph" INTEGER, "nfo:fileLastModified" INTEGER,
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER, "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL, "nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER, "nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER, "nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph" INTEGER, "nfo:regionOfInterestHeight" REAL, "nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType" INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo" INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER, "nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER, "nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER, "nfo:softwareCmdLine" TEXT COLLATE NOCASE, "nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph" INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER, "nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER, "nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount" INTEGER, "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate" REAL, "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER, "nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL, "nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject" (ID INTEGER NOT NULL PRIMARY KEY, "nie:url" TEXT COLLATE NOCASE UNIQUE, "nie:url:graph" INTEGER, "nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER, "nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL, "nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL, "nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER, "nmm:musicCDIdentifier" TEXT COLLATE NOCASE, "nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER, "nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL, "nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL, "nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL, "mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL, "nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL, "nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL, "nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:duration" INTEGER, "nmo:duration:graph" INTEGER, "nmo:lastSuccessfulMessageDate" INTEGER, "nmo:lastSuccessfulMessageDate:graph" INTEGER, "nmo:lastSuccessfulMessageDate:localDate" INTEGER, "nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph" INTEGER, "nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime" INTEGER, "nmo:lastSuccessfulMessageDate" INTEGER, "nmo:lastSuccessfulMessageDate:graph" INTEGER, "nmo:lastSuccessfulMessageDate:localDate" INTEGER, "nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY,  
"nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER,  
"nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER,  
"nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);

CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY,  
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,  
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,  
"nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered" INTEGER,  
"nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER,  
"nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER,  
"nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph" INTEGER,  
"nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER,  
"nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER,  
"nmo:htmlMessageContent" TEXT COLLATE NOCASE,  
"nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE NOCASE,  
"nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT COLLATE NOCASE,  
"nmo:messageSubject:graph" INTEGER, "nmo:receivedDate" INTEGER,  
"nmo:receivedDate:graph" INTEGER, "nmo:receivedDate:localDate" INTEGER,  
"nmo:receivedDate:localTime" INTEGER, "nmo:replyTo" INTEGER,  
"nmo:replyTo:graph" INTEGER, "nmo:sender" INTEGER,  
"nmo:sender:graph" INTEGER, "nmo:conversation" INTEGER,  
"nmo:conversation:graph" INTEGER, "nmo:communicationChannel" INTEGER,  
"nmo:communicationChannel:graph" INTEGER, "nmo:deliveryStatus" INTEGER,  
"nmo:deliveryStatus:graph" INTEGER, "nmo:reportDelivery" INTEGER,  
"nmo:reportDelivery:graph" INTEGER, "nmo:sentWithReportRead" INTEGER,  
"nmo:sentWithReportRead:graph" INTEGER, "nmo:reportReadStatus" INTEGER,  
"nmo:reportReadStatus:graph" INTEGER, "nmo:mustAnswerReportRead" INTEGER,  
"nmo:mustAnswerReportRead:graph" INTEGER, "nmo:mmsId" TEXT COLLATE NOCASE,  
"nmo:mmsId:graph" INTEGER);

CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL,  
"nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER,  
"nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);

CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL,  
"nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);

CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL,  
"nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);

CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL,  
"nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);

CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL,  
"nmo:inReplyTo" INTEGER, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER, "nmo:contentDisposition" TEXT COLLATE NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, "nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "rdfs:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, "rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, "rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, "tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL,
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, 
"scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, 
"scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, 
"scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, 
"scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, 
"scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, 
"scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, 
"scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, 
"scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY, 
"scal:recurrencePattern" TEXT COLLATE NOCASE, 
"scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate" INTEGER, 
"scal:recurrenceStartDate:graph" INTEGER, "scal:exception" INTEGER, 
"scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY, 
"scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER, 
"scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER, 
"scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY, 
"scal:todoStatus" INTEGER, "scal:todoStatus:graph" INTEGER, "scal:due" INTEGER, 
"scal:due:graph" INTEGER, "scal:completed" INTEGER, 
"scal:completed:graph" INTEGER, "scal:percentComplete" INTEGER, 
"scal:percentComplete:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY, 
"slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude" REAL, 
"slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL, 
"slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL, 
"slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL, 
"slo:altitude:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
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CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY, "slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY, "slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER, "slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL, "slo:belongsToCategory" INTEGER NOT NULL, "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL, "slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY, "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER, "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER, "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER, "slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL, "slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER, "tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER, "tracker:unmountDate:localDate" INTEGER, "tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER, "tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER, "tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER, "tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON "mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBoxBox_ID_ID" ON "mlo:GeoLocation_mlo:asBoundingBoxBox" ("mlo:asBoundingBoxBox", ID);```
CREATE INDEX "mlo:GeoLocation_mlo:asGeo_point_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeo_point_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON "mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON "mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON "mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON "mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON "mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON "mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON "mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON "mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON "mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON "mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON "mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID, "mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID, "mlo:boxNorthLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID, "mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID, "mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON "nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON "nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON "nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON "nco:Contact_ncal:birthday" (ID, "ncal:birthday");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON "nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON "nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON "nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_scal:birthday_ID_ID" ON "nco:Contact_scal:birthday" (ID, "scal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON "nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON "nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON "nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact" ("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber" ("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON "nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON "nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON "nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON "nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON "nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON "nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON "nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON "nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON "nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url" (ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON "nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID,
"nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmark" (ID,
"nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID,
"nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON "nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON
"nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON
"nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON
"nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON
"nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON
"nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON
"nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON
"nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON
"nie:InformationElement_nie:hasLogicalPart" (ID,
"nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON
"nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX
"nie:InformationElement_nie:informationElementDate_ID_ID" ON
"nie:InformationElement_nie:informationElementDate" (ID,
"nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID"
ON "nie:InformationElement_nie:isLogicalPartOf" (ID,
"nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON
"nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON
"nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON
"nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON
"nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON
"nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece"
("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON
"nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON
"nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmo:containsPhoneMessageFolder" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" (ID, "nmo:containsPhoneMessageFolder")

CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID, "nmo:containsPhoneMessageFolder")

CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON "nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard")

CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON "rdfs:Resource_nao:hasTag" (ID, "nmo:hasTag")

CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON "rdfs:Resource_nao:isRelated" (ID, "nmo:isRelated")

CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON "rdfs:Resource_rdf:type" (ID, "rdf:type")

CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added")

CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON "scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from")

CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON "scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to")

CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON "scal:Attendee_scal:member" (ID, "scal:member")

CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON "scal:Attendee_scal:sent-by" (ID, "scal:sent-by")

CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON "scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee")

CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON "scal:CalendarItem_scal:access" (ID, "scal:access")

CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON "scal:CalendarItem_scal:attachment" (ID, "scal:attachment")

CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON "scal:CalendarItem_scal:attendee" (ID, "scal:attendee")

CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID"
"4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation4",
"nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND
"nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" =
"nco:Role_nco:hasPhoneNumber5"."ID")), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||"nco:emailAddress" COLLATE NOCASE, ',') FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ,)
FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasEmailAddress7"."nco:hasEmailAddress" AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation6",
"nco:Role_nco:hasEmailAddress7" AS "nco:Role_nco:hasEmailAddress7"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND
"nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" =
"nco:Role_nco:hasEmailAddress7"."ID")), (SELECT
'\n") FROM (SELECT
"nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation8"."ID")), (SELECT
GROUP_CONCAT("6_u", ',') FROM (SELECT
"rdfs:Resource_nao:hasTag9"."nao:hasTag" AS "6_u" FROM
"rdfs:Resource_nao:hasTag9" AS "rdfs:Resource_nao:hasTag9" WHERE
'\n") FROM (SELECT
"nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation10"."ID")), (SELECT
GROUP_CONCAT("nco:note","\n") FROM "nco:Contact_nco:note" WHERE ID = "1_u"), (SELECT "nco:gender" FROM "nco:PersonContact" WHERE ID
= "1_u"}, (SELECT GROUP_CONCAT("2_u") AS "3_u") FROM (SELECT "4_u" AS "5_u" WHERE "6_u" = "7_u") ORDER BY "6_u";
Without a shared lock, other processes are free to modify the database.

Proprietary SQLite Extensions

Rather than using fopen() to write XML or some proprietary format into

Sources are in the public domain.

Suppose the demo_data.boundary field holds some proprietary data description.

# 2006 September 14
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
# do_test fts2c-1.1 {
#     db eval {
#         CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
#         BEGIN TRANSACTION;
#         INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,' +
#             'traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
#             changes will be made to the Autohedge functionality on EnronOnline.
#             The volume on the hedge will now respect the minimum volume and volume increment settings on the parent
#             product. See rules below:
#             ?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
#             ?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume
#             increment on the parent, the hedge will volume will be the parent’s minimum volume.
#             ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.
#             Please see example below:
#             Parent’s Settings:
#             Minimum: 5000
#             Increment: 1000

Volume on Autohedge transaction
Volume Hedged
1      - 24990
2500 - 54995000
5500 - 64996000;

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/ri/010129/n29305829.html);

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark);

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001
-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com',
'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would
be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business
users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up
Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com.', 'TRV Notification:  (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.
Thank for your help!);
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW!

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com',
"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc:
Subject: About St Pauls

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know. ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,',' Reply Brief filed July 31, 2000,' - CPUC01-#76371-v1-Revised_Reply_Brief_Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
'));
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwollkwitz@powermerchants.com', '"');

Here is a goody for you):
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,',' TRV Notification: (West VaR - 11/07/2001), 'The report named: West VaR
now available for viewing on the website.';
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com, ', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent:Tuesday, September 25, 2001 11:37 AM
To:Bayer, Adam
Subject:Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts  
15 Questar Pipeline  
40 Rockies Production  
22 West_2  
23 West_3  
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)" <Leila_Mankarious@mhhs.org>, "'Marymankarious (E-mail)" <marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

Thanks

-------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ------------------------
From: William Kelly @ ECT                          12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
c: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal: East Northeast
Dick Jenkins: East Marketeast

WK
'
INSERT INTO email(from,[to],subject,values) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,values) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,
I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
c: 
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com','RE:','i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,' 
chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are 
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery 
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer 
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment 
for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272

Insert INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash

Report Name: Houston Cellular 8-11-01

Report Date: 12/13/01

Report ID: 594D37C9ED2111D5B452

Submitted On: 12/13/01

______________________________
You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM 	 To: ""smara@enron.com"
cc:   Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


')

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy, Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick, Here are the documents that Peter has prepared for Mark Frevert.

Nailia

-------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 -----------------------

Nailia Dindarova

25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter
Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/ licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '-------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ---------------')
Thomas A Martin  
10/11/2000 03:55 PM  
To: Patrick Wade/HOU/ECT@ECT  
cc:  
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

');

INSERT INTO email(from,to,subject,body) VALUES('judy.townsend@enron.com','dan.junek@enron.com,chris.germany@enron.com','Columbia Distribution''s Capacity Available for Release - Sum','-----------------------
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM --------------------- agoddard@nisource.com on 03/08/2001 09:16:57 AM  
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>  
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>  
Subject: Columbia Distribution’s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

INSERT INTO email(from,to,subject,body) VALUES('rhonda.denton@enron.com','tim.belden@enron.com,dana.davis@enron.com,genia.fitzgerald@enron.com','Split Rock Energy LLC','We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');

INSERT INTO email(from,to,subject,body) VALUES('kerrymcelroy@dwt.com','jack.speer@alcoa.com,crow@millernash.com,michaelearly@earthlink.net','Oral Argument Request',' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', "','Did you come in town this wk end.... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info','

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com','','email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com','','2001 Enron Law Conference (Distribution List 2)','  'Enron Law Conference
San Antonio, Texas    May 2-4, 2001    Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re: ', 'hey - thats funny about john - he definitely remembers him - i''ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I''ll get it done today.

DG    3-9573

From: Bryce Baxter               06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out....

www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance.

-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???', ' 

-----Original Message-----
From: Kenne, Dawn C. 
Sent: Wednesday, February 06, 2002 11:50 AM 
To: Keiser, Kam 
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com',", 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490ANTED TO JOIN THE ENRON DISCUSSIONS?
Be a part of the revolution, Enron, the most exciting
company ever. Sign up now and let the revolution begin.
www.enron.com
Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

Justin Boyd told me that you can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not. F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');
LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytzttoolzprint.jpg');

COMMIT;
do_test fts2c-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts2c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts2c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts2c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"
  }
} {}
do_test fts2c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts2c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}
# Some simple tests of the automatic "offsets(email)" column. In the sample
data set above, only one message, number 20, contains the words
"gas" and "reminder" in both body and subject.

```sql
do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
```

```sql
do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
```

```sql
do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
```

```sql
do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
```

```sql
do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
```

# Document 32 contains 5 instances of the word "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.

```sql
do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
```

```sql
do_test fts2c-3.2 {
  execsql {
```
SELECT rowid, offsets(email) FROM email
WHERE body MATCH "child product"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts2c-4.1 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b> place. What do you think about going here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts2c-4.3 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
Review Enron asset base for <b>potential</b>/ licensing
Contract negotiations <b>...</b>}}
do_test fts2c-4.4 {
execsql {
SELECT snippet(email, '<<<','>>>',' ') FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations}}
do_test fts2c-4.5 {
execsql {
SELECT snippet(email, '<<<','>>,',' ') FROM email
WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the}}
do_test fts2c-4.6 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'}
Sounds good to me. I bet this is next to the Warwick? I bet this is next to the Warwick?? Hotel. place. What do you think about going here Christmas eve?? They have an 11:00 a.m. Sounds good to me. I bet this is next to the Warwick?? Hotel. place. What do you think about going here Christmas eve?? They have an 11:00 a.m.

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH "pursuant to"

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH 'ancillary load davis'

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH 'questar enron OR com'

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH 'enron OR com questar'

PARSING

LOG MESSAGES:

# Combinations of AND and OR operators:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH "pursuant to"

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH 'ancillary load davis'

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH 'questar enron OR com'

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH 'enron OR com questar'

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH "pursuant to"

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH 'ancillary load davis'

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH 'questar enron OR com'

EXEC SQL

SELECT snippet(email) FROM email
WHERE email MATCH 'enron OR com questar'

Six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2

Six reports:

31 Keystone Receipts
15 Questar Pipeline
INSERT INTO x1 VALUES('blonds', 'proprietary');

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts1c-1.1 {
    db eval {

CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

? If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
? If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

<table>
<thead>
<tr>
<th>Volume on Autohedge transaction</th>
<th>Volume Hedged</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24990</td>
</tr>
<tr>
<td>2500 - 54995000</td>
<td>5000</td>
</tr>
<tr>
<td>5500 - 64996000</td>
<td></td>
</tr>
</tbody>
</table>

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI: If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,
I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');

INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well.

Thanks.

Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com','
'OCTOBER SCHEDULE', 'TEAM,'  

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,'); 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website. ');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages. In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
c:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

'});
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you):

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');

FW: Curve Fetch File, 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.
-----Original Message-----
From: Royed, Jeff
Sent:Tuesday, September 25, 2001 11:37 AM
To:Bayer, Adam
Subject:Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhss.org>, "'Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done..........................
Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Judeast

WK

');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their
calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

');

INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');}
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks! Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


');

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', '');
'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EnronXGate
cc: Ross Sankey/Enron@EnronXGate, Eric Shaw/ENRON@EnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage…..contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution"s Capacity Available for Release - Sum

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

---

- 2001Summer.doc
');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com','tim.belden@enron.com,
dana.davis@enron.com, genia.fitzgerald@enron.com,' ,'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com','jack.speer@alcoa.com,
crow@millernash.com, michelearly@earthlink.net,','Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com','rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332
the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com','trycooper@hotmail.com', 'FW: Contact Info', ' ');

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
e-mail: kpunja@hotmail.com

Take Care,

Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net','mcguinn.k@enron.com,
mguinn.ian@enron.com, mcguinn.stephen@enron.com,','email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn);
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2),', ' 2001 Enron Law Conference

San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

    See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.
From: Bryce Baxter                           06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP:  Mike Carson
PWR-NG-LT-SERC:  Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP:  Mike Carson
EPMI-LT-SERC:  Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey');

ds

');
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
Thank you,
Karolyn Criado
3-9441

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two
links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
   included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on
new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

INSERT INTO email(from,[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio', '

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

')

INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,',
'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie

');

INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',

<< File: enrontccs.xls >>
'Centana', Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',)
The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/)

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now
-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE: give me a contact over there too

BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject: Coral

Jeff Whitnah 713-767-5374
Reliant
Steve McGinn 713-207-4000

LOG MESSAGES:

PARSING FILE -->>> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15...talk to you');

INSERT INTO email ([from], [to], subject, body) VALUES ('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztoolzprint.jpg);

COMMIT;

} {}
execsql {
  SELECT rowid FROM email WHERE email MATCH "mark susan"
}
} {}
do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts1c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "'child product'"
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts1c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>e?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
among others. <b>...</b>}}
do_test fts1c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
    Review Enron asset base for <b>potential</b> <b>reuse</b>/ licensing}}
Contract negotiations 

do_test fts1c-4.4 {
execsql {
    SELECT snippet(email, '<<<','>>>', ' ') FROM email 
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<Deal>> <<Sheet>> intent 
    Review Enron asset base for <<potential>> <<reuse>>/ licensing 
    Contract negotiations }}

do_test fts1c-4.5 {
execsql {
    SELECT snippet(email, '<<<','>>>', ' ') FROM email 
    WHERE email MATCH 'first things'
}
} {{Re: <<First>>> Polish Deal! Congrats! <<Things>>> seem to be building rapidly now on the 

do_test fts1c-4.6 {
execsql {
    SELECT snippet(email) FROM email 
    WHERE email MATCH 'chris is here'
}
} {{chris.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
    Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b> 

do_test fts1c-4.7 {
execsql {
    SELECT snippet(email) FROM email 
    WHERE email MATCH "pursuant to"
}
} {{Erin:

<p>Pursuant to your request, attached are the Schedule to <b>...</b> 

do_test fts1c-4.8 {
execsql {
    SELECT snippet(email) FROM email 
    WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b>schedules awarded.
    Variances detected.
    Variances detected in <b>Load</b> schedule.

    LOG MESSAGES:

    PARSING <b>...</b> 

    # Combinations of AND and OR operators:
    #
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
} }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b>/Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}

do_test fts1c-5.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
} }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b>/Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Found in path(s):
* %%Copyright
No license file was found, but licenses were detected in source scan.

%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.
%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.
%%BeginResource: procset Adobe_CoolType_Core 2.31 0

Found in path(s):
No license file was found, but licenses were detected in source scan.

SQLite is open source, and is available in the public domain
application code is free to use these routines as well, if desired.

MMFauxFont.prc

MMFauxFont.prc

FOR IMMEDIATE RELEASE:

SQLite Consortium Launches With Mozilla And Symbian As Charter Members

Ensures independent technical direction for world's most deployed SQL database engine

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian,
the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

About SQLite
SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.

CONTACT INFORMATION:
SQLite Consortium
Dr. D. Richard Hipp
6200 Maple Cove Lane
Charlotte, NC 28269
Email: drh@sqlite.org
<p><b>About Mozilla</b></p>

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.

<p>CONTACT INFORMATION:<br>
Mozilla Corporation<br>
Jessica Waight<br>
Tel: +1.415.345.4754<br>
Email: jwaight@outcastpr.com</p>

<p><b>About Symbian Limited</b></p>

Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

<p>CONTACT INFORMATION:<br>
Symbian Global Press Office<br>
Karen Hamblen<br>+44 207 154 1707<br>press@symbian.com</p>
The `psow` query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

SQLite core and like the SQLite core are in the public domain. The
The `<b><a href="th3.html">TH3</a></b>` test harness is a set of proprietary tests, written in

```
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
```

application is free to use the same `<a href="../c3ref/sqlite3.html">database connection</a>` or the

```
** The "printf" code that follows dates from the 1980's. It is in
** the public domain. The original comments are included here for
** completeness. They are very out of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
```
** out so that the functionality is now the same as standard printf().
**
**************************************************************************
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/

Found in path(s):
* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive\-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNiVkuI7/sqlite-src-3071700/src/printf.c
No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

Found in path(s):
* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive\-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/uri.html
No license file was found, but licenses were detected in source scan.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>

<p>This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ______________, 2007 ("Effective Date") by and between ______________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> ("SQLite"); and</p>

<p>WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite</p>
trademark, as well as for promotion of SQLite at conferences and trade shows; and</p>

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and</p>

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.</p>

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:</p>

<h2>1.0 Definitions</h2>

<h3>1.1 SQLite Developers</h3>

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.</p>

<h3>1.2 SQLite Architect</h3>

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.</p>

<h3>1.3 Consortium Member</h3>

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.</p>

<h2>2.0 Agreement</h2>

<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

<h4>2.1.1 General Support</h4>

The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.</p>

<h4>2.1.2 Debugging Support</h4>

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite.
The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited to 220 hours per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

<h4>2.1.8 Code Quality</h4>
The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

<h4>2.1.9 Backwards Compatibility</h4>
The SQLite Developers recognize that Company uses SQLite
in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> in good working order and all SQLite source code shall be made freely available at such website.</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.</p>

<h4>2.2.2 Direction</h4>
<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.</p>

<h4>2.2.3 Oversight</h4>
<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.</p>

<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>
2.3.1 Employer

Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

2.3.2 Responsible Party

All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.

2.3.3 Multiple Developers

Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.

2.3.4 Mentorship

Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.

2.3.5 Audits

Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.

2.3.6 Disaster Planning

Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.
<h4>2.3.7 Trademark</h4>
Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> website.

<h4>2.3.8 No Take-overs or Buy-outs</h4>
Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

<h4>2.3.9 New Consortium Members</h4>
New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.

<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

<h4>2.3.11 Use Of Funds</h4>
Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

<h4>2.4.2 Copyright Disclaimer</h4>
Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a>
is in the public domain and that nothing in this agreement shall change that fact.
</p>

<h2>3.0 Fees</h2>

<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company’s discretion.</p>

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>

<p>“Confidential Information” means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

<h4>4.2.1 Disclosure Required by Law</h4>

<p>In the event any Confidential Information is required to be disclosed</p>
by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

4.3 Return of Materials.

Upon the termination of this Agreement, or upon Company’s earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.

5.0 Intellectual Property

5.1 No Assignment

Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.

5.2 Availability and Public Domain Dedication

The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation.
to the public domain.
To the extent that the SQLite Developers and Hwaci
elect not to release the SQLite
source code and documentation
publicly, they shall provide copies thereof to
Company and hereby grants to Company, under all of the
SQLite Developers' and Hwaci's
rights
including but not limited to copyright and patent rights,
in and to the SQLite source code and documentation,
perpetual, irrevocable,
worldwide, non-exclusive, sublicenseable license to use,
copy, prepare derivative works of, publicly perform and
display the SQLite source code and documentation
and derivative works thereof.</p>
<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the
publicly available project known by such name as of the
Effective Date. Hwaci may in its discretion file such
trademark applications or registrations as it deems
appropriate to protect or record its rights therein,
and may set such policies as it deems appropriate for
licensing the use of the trademark.</p>

<h3>6.0 Representations And Warranties</h3>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall
enter into agreements with the SQLite Developers sufficient
to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND
COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY
REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL
OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE,
CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO
THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT.
EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED
WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

<h2>7.0 Term And Termination</h2>
7.1 Term.

This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.

7.2 Termination.

If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.

7.3 Survival.

Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

8.1 Nonassignment/Binding Agreement.

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

8.2 Notices.

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or
(c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement
may not be amended, except by a writing signed by both parties.</p>

<h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

<h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.</p>

<h3>8.8 Independent Contractors.</h3>

<p>It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.</p>

<h2>9.0 Signatures</h2>

<p>The parties have executed this Agreement below to indicate their acceptance of its terms.</p>

<table width="100%" border="0">
<tr><td valign="top">
HWACI</td><td width="10%"></td><td valign="top">
COMPANY</td></tr>
<tr><td valign="top">
By: <hr>
Print Name: <hr>
Title: <hr></td><td width="10%"></td><td valign="top">
By: <hr>
Print Name: <hr></td></tr>
</table>
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**  **  May you do good and not evil.
**  **  May you find forgiveness for yourself and forgive others.
**  **  May you share freely, never taking more than you give.
**
****************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**  *  General-purpose declarations and utility functions.
**  *  Unique file ID logic used by VxWorks.
**  *  Various locking primitive implementations (all except proxy locking):
**    *  for Posix Advisory Locks
**    *  for no-op locks
**    *  for dot-file locks
**    *  for flock() locking
**    *  for named semaphore locks (VxWorks only)
**    *  for AFP filesystem locks (MacOSX only)
** sqlite3_file methods not associated with locking.
** Definitions of sqlite3_io_methods objects for all locking methods plus “finder” functions for each locking method.
** sqlite3_vfs method implementations.
** Locking primitives for the proxy uber-locking-method. (MacOSX only)
** Definitions of sqlite3_vfs objects for all locking methods
** plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):

No license file was found, but licenses were detected in source scan.

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest.  This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

Found in path(s):

No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%Version

No license file was found, but licenses were detected in source scan.

<p><b>Public domain</b></p>
The source code for SQLite is in the public domain. No claim of copyright
the public domain and originals of author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require the public domain.  
their contributions to the public domain.
in this code to the public domain.  We make this dedication for the benefit

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
  execsql {CREATE TABLE tbl1(t1 text)}
  foreach word [this program is free software] {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
exsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
exsql{
CREATE TABLE t2(a);
INSERT INTO t2 VALUES(1);
INSERT INTO t2 VALUES(NULL);
INSERT INTO t2 VALUES(345);
INSERT INTO t2 VALUES(NULL);
INSERT INTO t2 VALUES(67890);
SELECT * FROM t2;
}
} {1 {1} 345 {1} 67890}

# Check out the length() function
#
do_test func-1.0 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
  set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
  set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
  execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
  ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
  execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
  execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
  execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
  execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
    execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} { e i a r i}
do_test func-2.6 {
    execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} { e e i s a m re is}
do_test func-2.7 {
    execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} { f r { } g r w a th}
do_test func-2.8 {
    execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {t h i s s o f t w a r e f r e e p r o g r a m i s}
do_test func-2.9 {
    execsql {SELECT substr(a,1,1) FROM t2}
} { 1 {} 3 {} 6}
do_test func-2.10 {
    execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
    do_test func-3.0 {
        execsql {DELETE FROM tbl1}
        foreach word "contains UTF-8 characters hi\u1234ho" {
            execsql "INSERT INTO tbl1 VALUES('$word')"
        }
        execsql {SELECT t1 FROM tbl1 ORDER BY t1}
    } "UTF-8 characters contains hi\u1234ho"
    do_test func-3.1 {
        execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
    } {5 10 8 5}
    do_test func-3.2 {
        execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
    } {U T ch co hi}
    do_test func-3.3 {
        execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
    } "UTF cha con hi\u1234"
    do_test func-3.4 {
        execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
    } "TF ha on i\u1234"
    do_test func-3.5 {
        execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
    } "TF- har on t i\u1234h"
    do_test func-3.6 {
execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
   execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
   execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
   execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
   execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain \u1234h"
do_test func-3.99 {
   execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1}
} {this program is free software}

};# End \u1234!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
   do_test func-4.1 {
      execsql {
         CREATE TABLE t1(a,b,c);
         INSERT INTO t1 VALUES(1,2,3);
         INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
         INSERT INTO t1 VALUES(3,-2,-5);
      }
      catchsql {SELECT abs(a,b) FROM t1}
   } {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
   do_test func-4.1 {
      execsql {
         CREATE TABLE t1(a,b,c);
         INSERT INTO t1 VALUES(1,2,3);
         INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
         INSERT INTO t1 VALUES(3,-2,-5);
      }
      catchsql {SELECT abs(a,b) FROM t1}
   } {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 12345.6789 5}}
}
ifcapable !floatingpoint {
if {{working_64bit_int]} {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 12345678901234 2}}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 1234567890 5}}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2}
} {1 {345} 67890}
do_test func-4.4.2 {
execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
}
ifcapable floatingpoint {
do_test func-4.5 {
catchsql {SELECT round(a,b,c) FROM t1}
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 {2 -0.2 1.23 2.0}}
do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2.0 1.0 -2.0}}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.0}}
do_test func-4.10 {
catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
catchsql {SELECT round() FROM t1 ORDER BY a} 
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
  execsql {SELECT coalesce(round(a,2),'nil') FROM t2} 
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
  execsql {SELECT round(t1,2) FROM tbl1} 
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
  execsql {SELECT typeof(round(5.1,1));} 
} {real}
do_test func-4.15 {
  execsql {SELECT typeof(round(5.1));} 
} {real}
do_test func-4.16 {
  catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b} 
} {0 {-2.0 1.23 2.0}}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
  set x1 [expr 40222.5 + $i]
  set x2 [expr 40223.0 + $i]
  do_test func-4.17.$i {
    execsql {SELECT round($x1);}
  } $x2
}
for {set i 1} {$i<999} {incr i} {
  set x1 [expr 40222.05 + $i]
  set x2 [expr 40222.10 + $i]
  do_test func-4.18.$i {
    execsql {SELECT round($x1,1);}
  } $x2
}
do_test func-4.20 {
  execsql {SELECT round(40223.49999999999);} 
} {40223.0}
do_test func-4.21 {
  execsql {SELECT round(40224.4999999999);} 
} {40224.0}
do_test func-4.22 {
  execsql {SELECT round(40225.4999999999);} 
} {40225.0}
for {set i 1} {$i<10} {incr i} {
  do_test func-4.23.$i {
    execsql {SELECT round(40223.4999999999,9);} 
  } {40223.5}
do_test func-4.24.$i {
    execsql {SELECT round(40224.4999999999,$i);}
} {40224.5}
do_test func-4.25.$i {
    execsql {SELECT round(40225.4999999999,$i);}
} {40225.5}
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.4999999999}
    do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.4999999999}
    do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.4999999999}
}
    do_test func-4.29 {
        execsql {SELECT round(1234567890.5);}
    } {1234567891.0}
    do_test func-4.30 {
        execsql {SELECT round(12345678901.5);}
    } {12345678902.0}
    do_test func-4.31 {
        execsql {SELECT round(123456789012.5);}
    } {123456789013.0}
    do_test func-4.32 {
        execsql {SELECT round(1234567890123.5);}
    } {1234567890124.0}
    do_test func-4.33 {
        execsql {SELECT round(12345678901234.5);}
    } {12345678901235.0}
    do_test func-4.34 {
        execsql {SELECT round(123456789012345.5);}
    } {123456789012346.0}
    do_test func-4.35 {
        execsql {SELECT round(99999999999994.5);}
    } {99999999999995.0}
    do_test func-4.36 {
        execsql {SELECT round(99999999999995.5);}
    } {99999999999996.0}
    do_test func-4.37 {
        execsql {SELECT round(99999999999999.5);}
    } {99999999999999.6}
    do_test func-4.38 {
        execsql {SELECT round(999999999999999.5);}
    } {999999999999999.6}
# Test the upper() and lower() functions

```sql
do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
if capable !icu {
  do_test func-5.4 {
    catchsql {SELECT upper(a,5) FROM t2}
  } {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}
```

# Test the coalesce() and nullif() functions

```sql
do_test func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
  execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
  execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
  execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
  execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}
```

# Test the last_insert_rowid() function

```sql
do_test func-7.1 {
  execsql {SELECT last_insert_rowid()}
} {[db last_insert_rowid]}
```

# Tests for aggregate functions and how they handle NULLs.

---

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#
ifcapable floatingpoint {
do_test func-8.1 {
    ifcapable explain {
        execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
        SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
    }
} {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
do_test func-8.1 {
    ifcapable explain {
        execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
        SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
    }
} {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
    execsql {
        SELECT max('z+''a''abcdeghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZNOP') FROM t2;
    }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable tempdb {
do_test func-8.3 {
    execsql {
        CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
        SELECT min('z+''a''abcdeghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZNOP') FROM t3;
    }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
} else {
do_test func-8.3 {
    execsql {
        CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
        SELECT min('z+''a''abcdeghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZNOP') FROM t3;
    }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
}
do_test func-8.4 {
    execsql {
        SELECT max('z+''a''abcdeghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZNOP') FROM t3;
    }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable compound {


do_test func-8.5 {
  execsql {
    SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
      UNION ALL SELECT -9223372036854775807)
  }
} {0}
do_test func-8.6 {
  execsql {
    SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
      UNION ALL SELECT -9223372036854775807)
  }
} {integer}
do_test func-8.7 {
  execsql {
    SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
      UNION ALL SELECT -9223372036850000000)
  }
} {real}
ifcapable floatingpoint {
  do_test func-8.8 {
    execsql {
      SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
        UNION ALL SELECT -9223372036850000000)
    }
} {1}
}
ifcapable !floatingpoint {
  do_test func-8.8 {
    execsql {
      SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
        UNION ALL SELECT -9223372036850000000)
    }
} {1}
}# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
} {1}
do_test func-9.2 {
  execsql {
    SELECT typeof(random());
  }
} {integer}
do_test func-9.3 {
execsql {
    SELECT randomblob(32) is not null;
}
} {1}
do_test func-9.4 {
execsql {
    SELECT typeof(randomblob(32));
}
} {blob}
do_test func-9.5 {
execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)), length(randomblob(2000))
}
} {32 1 2000}

# The "hex()" function was added in order to be able to render blobs # generated by randomblob(). So this seems like a good place to test # hex().
#
if capable bloblit {
do_test func-9.10 {
excsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')} }
} {00112233445566778899AABBCCDDEEFF}
}
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
do_test func-9.11-utf16le {
excsql {SELECT hex(replace('abcdefg','ef','12'))} }
} {6100620063006400310032006700}
do_test func-9.12-utf16le {
excsql {SELECT hex(replace('abcdefg','','','12'))} }
} {6100620063006400650066006700}
do_test func-9.13-utf16le {
excsql {SELECT hex(replace('aabcdefg','a','aaa'))} }
} {610061006100610061006100620063006400650066006700}
elseif {$encoding=="UTF-8"} {
do_test func-9.11-utf8 {
excsql {SELECT hex(replace('abcdefg','ef','12'))} }
} {61626364313267}
do_test func-9.12-utf8 {
excsql {SELECT hex(replace('abcdefg','','','12'))} }
} {61626364656667}
do_test func-9.13-utf8 {
excsql {SELECT hex(replace('aabcdefg','a','aaa'))} }
} {616161616161626364656667}
# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
catchsql {
    SELECT testfunc(NULL,NULL);
}
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234
    );
}
} {1234}
do_test func-10.3 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL
    );
}
} {{}}
ifcapable floatingpoint {
do_test func-10.4 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234
    );
}
} {1.234}
do_test func-10.5 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'int', 1234,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'string', NULL,
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'double', 1.234
);

if {
} else {
ifcapable {utf16} {
}
}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
execsql {
    SELECT sqlite_version(*);
}
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test_destructor_count() returns the number of outstanding
# destructor calls for values returned by test_destructor().
#
if {
} else {
ifcapable {utf16} {
}
}

do_test func-12.2 {
execsql {
    SELECT test_destructor_count();
}
} {0}
do_test func-12.3 {
  execsql {
    SELECT test Destructor('hello') || ' world'
  }
} {{hello world}}
do_test func-12.4 {
  execsql {
    SELECT test Destructor_count();
  }
} {0}
do_test func-12.5 {
  execsql {
    CREATE TABLE t4(x);
    INSERT INTO t4 VALUES(test Destructor('hello'));
    INSERT INTO t4 VALUES(test Destructor('world'));
    SELECT min(test Destructor(x)), max(test Destructor(x)) FROM t4;
  }
} {{hello world}}
do_test func-12.6 {
  execsql {
    SELECT test Destructor_count();
  }
} {0}
do_test func-12.7 {
  execsql {
    DROP TABLE t4;
  }
} {}

# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
  execsql {
    SELECT test auxdata('hello world');
  }
} {0}
do_test func-13.2 {
  execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
  }
} {}
do_test func-13.3 {
  execsql {
SELECT test_auxdata('hello world') FROM t4;
}
} {0 1}
do_test func-13.4 {
execsql {
  SELECT test_auxdata('hello world', 123) FROM t4;
}
} {{0 0} {1 1}}
do_test func-13.5 {
execsql {
  SELECT test_auxdata('hello world', a) FROM t4;
}
} {{0 0} {1 0}}
do_test func-13.6 {
execsql {
  SELECT test_auxdata('hello'||'world', a) FROM t4;
}
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
  set DB [sqlite3_connection_pointer db]
  set sql "$SELECT test_auxdata( ?, a ) FROM t4;"
  set STMT [sqlite3_prepare $DB $sql -1 TAIL]
  sqlite3_bind_text $STMT 1 hello000 -1
  set res [list]
  while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
    lappend res [sqlite3_column_text $STMT 0]
  }
  lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
catch {
  db function [string repeat X 254] {return "hello"}
}
} {0}
do_test func-14.2 {
catch {
  db function [string repeat X 256] {return "hello"}
}
} {1}
do_test func-15.1 {
catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {

catchsql {select test_error('this is the error message')}  
} {1 {this is the error message}}
do_test func-15.3 {  
catchsql {select test_error('this is the error message',12)}  
} {1 {this is the error message}}
do_test func-15.4 {  
db errorcode  
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {  
execsql {  
    CREATE TABLE tbl2(a, b);  
}  
set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]  
sqlite3_bind_blob $::STMT 1 abc 3  
sqlite3_step $::STMT  
sqlite3_finalize $::STMT  
execsql {  
    SELECT quote(a), quote(b) FROM tbl2;  
}  
} {X'616263' NULL}

# Correctly handle function error messages that include %. Ticket #1354  
#
do_test func-17.1 {  
proc testfunc1 args {error "Error %d with %s percents %p"}  
db function testfunc1 ::testfunc1  
catchsql {  
    SELECT testfunc1(1,2,3);  
}  
} {Error %d with %s percents %p}

# The SUM function should return integer results when all inputs are integer.  
#
do_test func-18.1 {  
execsql {  
    CREATE TABLE t5(x);  
    INSERT INTO t5 VALUES(1);  
    INSERT INTO t5 VALUES(-99);  
    INSERT INTO t5 VALUES(10000);  
    SELECT sum(x) FROM t5;  
}  
} {9902}  
ifcapable floatingpoint {  
do_test func-18.2 {  
    execsql {  
        INSERT INTO t5 VALUES(0.0);  
}  
}
SELECT sum(x) FROM t5;
}
} {9902.0}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
execsql {
    DELETE FROM t5;
    SELECT sum(x), total(x) FROM t5;
}
} {{} 0.0}
do_test func-18.4 {
execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
}
} {{} 0.0}
do_test func-18.5 {
execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
}
} {{} 0.0}
do_test func-18.6 {
execsql {
    INSERT INTO t5 VALUES(123);
    SELECT sum(x), total(x) FROM t5
}
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
do_test func-18.10 {
execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0
do_test func-18.11 {
execsql {

SELECT typeof(sum(x)) FROM t6
}
} integer
ifcapable floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2.0+1) from t6;
    }
  } {1 {integer overflow}}
  do_test func-18.13 {
    execsql {
      SELECT total(x) - ((1<<62)*2.0+1) FROM t6
    }
    0.0
  }
}
ifcapable !floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2+1) from t6;
    }
  } {1 {integer overflow}}
  do_test func-18.13 {
    execsql {
      SELECT total(x) - ((1<<62)*2+1) FROM t6
    }
    0.0
  }
}
if {[working_64bit_int]} {
  do_test func-18.14 {
    execsql {
      SELECT sum(-9223372036854775805);
    }
    -9223372036854775805
  }
}
ifcapable compound&&subquery {
  do_test func-18.15 {
    catchsql {
      SELECT sum(x) FROM (SELECT 9223372036854775807 AS x UNION ALL
        SELECT 10 AS x);
    }
  } {1 {integer overflow}}
  if {[working_64bit_int]} {
    do_test func-18.16 {
      catchsql {
      
    }
SELECT sum(x) FROM (SELECT 9223372036854775807 AS x UNION ALL SELECT -10 AS x);
} {0 9223372036854775797}
do_test func-18.17 {
catchsql {
    SELECT sum(x) FROM (SELECT -9223372036854775807 AS x UNION ALL SELECT 10 AS x);
} {0 -9223372036854775797}
}
do_test func-18.18 {
catchsql {
    SELECT sum(x) FROM (SELECT -9223372036854775807 AS x UNION ALL SELECT -10 AS x);
} {1 {integer overflow}}
do_test func-18.19 {
catchsql {
    SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
} {0 -1}
do_test func-18.20 {
catchsql {
    SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
} {0 1}
do_test func-18.21 {
catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
} {0 -1}
do_test func-18.22 {
catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
} {0 1}
}

#: if capable compound subquery

# Integer overflow on abs()
#
if [[working_64bit_int]] {
do_test func-18.31 {
catchsql {
SELECT abs(-9223372036854775807);
}
} {0 9223372036854775807}
do_test func-18.32 {
catchsql {
    SELECT abs(-9223372036854775807-1);
}
} {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
execsql {
    SELECT match(a,b) FROM t1 WHERE 0;
}
} {}
do_test func-19.2 {
catchsql {
    SELECT 'abc' MATCH 'xyz';
}
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
catchsql {
    SELECT 'abc' NOT MATCH 'xyz';
}
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
catchsql {
    SELECT match(1,2,3);
}
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if ![catch {db eval {SELECT soundex('hello')}}] {
set i 0
foreach {name sdx} {
euler E460
EULER E460
Euler E460
ellery E460
gauss G200
ghosh G200
hilbert H416
Heilbronn H416
knuth K530
kant K530

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# Tests of the REPLACE function.

do_test func-21.1 |
  catchsql |
    SELECT replace(1,2);
  |
  | {1 {wrong number of arguments to function replace()}}

do_test func-21.2 |
  catchsql |
    SELECT replace(1,2,3,4);
  |
  | {1 {wrong number of arguments to function replace()}}

do_test func-21.3 |
  execsql |
    SELECT typeof(replace("This is the main test string", NULL, "ALT"));
  |
  | {null}

do_test func-21.4 |
  execsql |
    SELECT typeof(replace(NULL, "main", "ALT"));
  |
  | {null}

do_test func-21.5 |
  execsql |
    SELECT typeof(replace("This is the main test string", "main", NULL));
  |
  | {null}

do_test func-21.6 |
  execsql |
    SELECT replace("This is the main test string", "main", "ALT");
  |
  | {{This is the ALT test string}}

do_test func-21.7 |
  execsql |
    SELECT soundex("name");
  |
  | $sdx

} 

incr i

do_test func-20.$i |
  execsql |
    SELECT soundex("name");
  |
  | $sdx

}
SELECT replace("This is the main test string", "main", "larger-main");
}
} {This is the larger-main test string}}
do_test func-21.8 {
  execsql {
    SELECT replace("aaaaaaa", "a", "0123456789");
  }
} {01234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890}  
  
ifcapable tclvar {
  do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str "[string repeat A 29998]CC[string repeat A 35537]"
    set ::rep [string repeat B 65536]
    execsql {
      SELECT LENGTH(REPLACE($::str, 'C', $::rep));
    }
} [expr 29998 + 2*65536 + 35537]
} 

# Tests for the TRIM, LTRIM and RTRIM functions.
#
  do_test func-22.1 {
    catchsql {SELECT trim(1,2,3)}
  } {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
  catchsql {SELECT ltrim(1,2,3)}
  } {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
  catchsql {SELECT rtrim(1,2,3)}
  } {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
  execsql {SELECT trim('  hi  ')};
} {hi}
do_test func-22.5 {
  execsql {SELECT ltrim('  hi  ')};
} {{hi }}
do_test func-22.6 {
  execsql {SELECT rtrim('  hi  ')};
} {{ hi }}
do_test func-22.7 {
  execsql {SELECT trim('  hi ','xyz')};
} {{ hi }}
do_test func-22.8 {
  execsql {SELECT ltrim('  hi ','xyz')};
} {{ hi }}
do_test func-22.9 {
  

execsql {SELECT rtrim('  hi  ','xyz');} {{  hi  }}
do_test func-22.10 {
  execsql {SELECT trim('xyxzy hi zzzy','xyz');} {{  hi  }}
do_test func-22.11 {
  execsql {SELECT ltrim('xyxzy hi zzzy','xyz');} {{xyxzy hi}}
do_test func-22.12 {
  execsql {SELECT rtrim('xyxzy hi zzzy','xyz');} {{xyxzy hi zzzy}}
do_test func-22.13 {
  execsql {SELECT trim('  hi  ',"");} {{  hi  }}
}
if {[db one {PRAGMA encoding}]="UTF-8"} {
  do_test func-22.14 {
    execsql {SELECT hex(trim(x'c280e1bfbff48fbfbf6869',x'6162e1bfbfc280'))} {F48FBFBF6869}
  } {6869}
do_test func-22.16 {
    execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1'))};
} {CEB2CEB3}
}
do_test func-22.20 {
  execsql {SELECT typeof(trim(NULL));} {null}
do_test func-22.21 {
  execsql {SELECT typeof(trim(NULL,'xyz'));} {null}
do_test func-22.22 {
  execsql {SELECT typeof(trim('hello',NULL));} {null}
}
# This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {
  do_test func-23.1 {
    sqlite3_create_aggregate db
    execsql {
      SELECT legacy_count() FROM t6;
    }
} {3}
}
# The group_concat() function.
do_test func-24.1 {
  execsql {
    SELECT group_concat(t1) FROM tbl1
  }
} {{this,program,is,free,software}}

do_test func-24.2 {
  execsql {
    SELECT group_concat(t1,"\'") FROM tbl1
  }
} {{this program is free software}}

do_test func-24.3 {
  execsql {
    SELECT group_concat(t1,"\'||\'\') FROM tbl1
  }
} {{this 2 program 3 is 4 free 5 software}}

do_test func-24.4 {
  execsql {
    SELECT group_concat(NULL,t1) FROM tbl1
  }
} {{}}

do_test func-24.5 {
  execsql {
    SELECT group_concat(t1,NULL) FROM tbl1
  }
} {{thisprogramisfreesoftware}}

do_test func-24.6 {
  execsql {
    SELECT 'BEGIN-||group_concat(t1) FROM tbl1
  }
} {{BEGIN-this,program,is,free,software}}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[$(sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1)]} {incr i} {
  append midargs '/$i'
  append midres '/$i'
  set result [md5 "this${midres}program${midres}is${midres}free${midres}software${midres}"
  set sql "SELECT md5sum(t1$midargs) FROM tbl1"
} {{}}
db eval $::sql
] $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
} } {.program,is,free,software}
do_test func-24.9 {
execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
} } {,,,,software}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
} } {program,is,free,software}
do_test func-24.11 {
execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
} } {software}
do_test func-24.12 {
execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN ''
    WHEN 'program' THEN null ELSE t1 END) FROM tbl1
} } {,is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}

# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
abuse_create_function db
} {}
# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function

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nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {
catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}
# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
db eval {
CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
}
catchsql {
INSERT INTO t28(x) VALUES(1);
}
} {1 {unknown function: nosuchfunc()}}

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# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
db eval {
  CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
  INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
  INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
  INSERT INTO t29 VALUES(5, "hello", 7);
}
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null { } integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}
do_test func-29.3 {
  db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
do_test func-29.4 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x>100} {set x many}
set x
} {many}
}
do_test func-29.5 {
  db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}
do_execsql_test func-30.1 {SELECT unicode('$');} 36
  do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
  do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]  

for {set i 1} {$i<0xd800} {incr i 13} {  
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i  
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {  
if {$i==0xfeff} continue  
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i  
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {  
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i  
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commerical product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
  a a
  aaron aaron
  abaissiez abaissiez
  abandon abandon
  abandoned abandon
  abase abas
  abash abash
  abate abat
  abated abat
  abatement abat
  abatements abat
  abates abat
  abess abess
  abbey abbei
  abbeys abbei
  abominable abomin
  abbot abbot
  abbots abbot
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  abed ab
  abel abel
  aberga aberga
  abergavenny abergavenni
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  abominable abomin
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# Create a full-text index to use for testing the stemmer.

```sql
#
db close
sqlite3 db :memory:
db eval {
    CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
    do_test fts1porter-$pfrom {
        execsql {
            DELETE FROM t1_term;
            DELETE FROM t1_content;
            INSERT INTO t1(word) VALUES($pfrom);
            SELECT term FROM t1_term;
        }
    } $pto
}

finish_test
```

Found in path(s):

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<a href="copyright.html">public domain</a>. No claim of ownership is made

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: {configuration option}
 **
 ** These constants are the available integer configuration options that can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications should check the return code from [sqlite3_config()] to make sure that the call worked. The [sqlite3_config()] interface will return a non-zero [error code] if a discontinued or unsupported configuration option is invoked.
 **
 ** <dl>
 ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the [threading mode] to Single-thread. In other words, it disables all mutexing and puts SQLite into a mode where it can only be used by a single thread. ^If SQLite is compiled with the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then it is not possible to change the [threading mode] from its default value of Single-thread and so [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD configuration option. </dd>
 **
 ** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
 */
**<dd>**There are no arguments to this option. **This option sets the **[threading mode] to Multi-thread. In other words, it disables **mutexing on [database connection] and [prepared statement] objects. **The application is responsible for serializing access to **[database connections] and [prepared statements]. But other mutexes **are enabled so that SQLite will be safe to use in a multi-threaded **environment as long as no two threads attempt to use the same **[database connection] at the same time. **If SQLite is compiled with **the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then **it is not possible to set the Multi-thread [threading mode] and **[sqlite3_config()] will return [SQLITE_ERROR] if called with the **SQLITE_CONFIG_MULTITHREAD configuration option.</dd>**

**

** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>**

** <dd>**There are no arguments to this option. **This option sets the **[threading mode] to Serialized. In other words, this option enables **all mutexes including the recursive **mutexes on [database connection] and [prepared statement] objects. **In this mode (which is the default when SQLite is compiled with **[SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access **to [database connections] and [prepared statements] so that the **application is free to use the same [database connection] or the **same [prepared statement] in different threads at the same time. **^If SQLite is compiled with **the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then **it is not possible to set the Serialized [threading mode] and **[sqlite3_config()] will return [SQLITE_ERROR] if called with the **SQLITE_CONFIG_SERIALIZED configuration option.</dd>**

**

** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>**

** <dd>^This option takes a single argument which is a pointer to an **instance of the [sqlite3_mem_methods] structure. The argument specifies **alternative low-level memory allocation routines to be used in place of **the memory allocation routines built into SQLite.^ ^SQLite makes **its own private copy of the content of the [sqlite3_mem_methods] structure **before the [sqlite3_config()] call returns.</dd>**

**

** [[SQLITE_CONFIG_GET_MALLOC]] <dt>SQLITE_CONFIG_GET_MALLOC</dt>**

** <dd>^This option takes a single argument which is a pointer to an **instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods] **structure is filled with the currently defined memory allocation routines.^ **This option can be used to overload the default memory allocation **routines with a wrapper that simulations memory allocation failure or **tracks memory usage, for example.</dd>**

**

** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>**

** <dd>^This option takes single argument of type int, interpreted as a **boolean, which enables or disables the collection of memory allocation
(When memory allocation statistics are disabled, the following SQLite interfaces become non-operational:

- [sqlite3_memory_used()]
- [sqlite3_memory_highwater()]
- [sqlite3_soft_heap_limit64()]
- [sqlite3_status()]

Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.

This option specifies a static memory buffer that SQLite can use for scratch memory. There are three arguments: A pointer an 8-byte aligned memory buffer from which the scratch allocations will be drawn, the size of each scratch allocation (sz), and the maximum number of scratch allocations (N). The sz argument must be a multiple of 16. The first argument must be a pointer to an 8-byte aligned buffer of at least sz*N bytes of memory.

SQLite will use no more than two scratch buffers per thread. So N should be set to twice the expected maximum number of threads. SQLite will never require a scratch buffer that is more than 6 times the database page size. If SQLite needs additional scratch memory beyond what is provided by this configuration option, then [sqlite3_malloc()] will be used to obtain the memory needed.

This option specifies a static memory buffer that SQLite can use for the database page cache with the default page cache implementation. This configuration should not be used if an application-define page cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option. There are three arguments to this option: A pointer to 8-byte aligned memory, the size of each page buffer (sz), and the number of pages (N). The sz argument should be the size of the largest database page (a power of two between 512 and 32768) plus a little extra for each page header. The page header size is 20 to 40 bytes depending on the host architecture. It is harmless, apart from the wasted memory, to make sz a little too large. The first argument should point to an allocation of at least sz*N bytes of memory. SQLite will use the memory provided by the first argument to satisfy its memory needs for the first N pages that it adds to cache. If additional page cache memory is needed beyond what is provided by this option, then SQLite goes to [sqlite3_malloc()] for the additional storage space. The pointer in the first argument must be aligned to an 8-byte boundary or subsequent behavior of SQLite
**[[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>

** <dd>^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLite's memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at $2^{12}$. Reasonable values
** for the minimum allocation size are $2^{5}$ through $2^{8}$.</dd>

**

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>

** <dd>^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>

** <dd>^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods] structure is filled with the currently defined mutex routines.)^ 
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>

** <dd>^(This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.\(^\text{(This option sets the}
** \langle\text{default}\rangle\text{ lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to }\text{sqlite3_db_config()}\text{ can be used to change the lookaside
** configuration on individual connections.}\(^\text{)}}\</dd>
**
** ** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** ** \(^\text{(This option takes a single argument which is a pointer to}
** ** an [sqlite3_pcache_methods2] object. This object specifies the interface
** ** to a custom page cache implementation.}\(^\text{)}}\ ^\text{SQLi}te\text{ makes a copy of the}
** ** object and uses it for page cache memory allocations.}</dd>
**
** ** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** ** \(^\text{(This option takes a single argument which is a pointer to an}
** ** [sqlite3_pcache_methods2] object. SQLite copies of the current
** ** page cache implementation into that object.}\(^\text{)}}\</dd>
**
** ** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** ** \(^\text{The SQLITE_CONFIG_LOG option is used to configure the SQLite}
** ** global [error log].}\(^\text{)}}\ ^\text{The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a}
** ** function with a call signature of void(*)\(\text{(void* \(\text{int,}\text{const char*})}\),
** ** and a pointer to void.}\(^\text{)}}\ ^\text{If the function pointer is not NULL, it is}
** ** invoked by [sqlite3_log()\text{} to process each logging event.}\(^\text{)}}\ ^\text{If the}
** ** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.}
** ** \(^\text{The void pointer that is the second argument to SQLITE_CONFIG_LOG is}
** ** passed through as the first parameter to the application-defined logger}
** ** function whenever that function is invoked.}\(^\text{)}}\ ^\text{The second parameter to}
** ** the logger function is a copy of the first parameter to the corresponding}
** ** [sqlite3_log()\text{} call and is intended to be a \[result code\] or an
** ** [extended result code].}\(^\text{)}}\ ^\text{The third parameter passed to the logger is}
** ** log message after formatting via [sqlite3_snprintf()].}
** ** The SQLite logging interface is not reentrant; the logger function
** ** supplied by the application must not invoke any SQLite interface.}
** ** In a multi-threaded application, the application-defined logger}
** ** function must be threadsafe.}</dd>
**
** ** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** ** \(^\text{This option takes a single argument of type int. If non-zero, then}
** ** URI handling is globally enabled. If the parameter is zero, then URI handling}
** ** is globally disabled.}\(^\text{)}}\ ^\text{If URI handling is globally enabled, all filenames}
** ** passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or
** ** specified as part of [ATTACH] commands are interpreted as URIs, regardless}
** ** of whether or not the [SQLITE_OPEN_URI] flag is set when the database}
** ** connection is opened.}\(^\text{)}}\ ^\text{If it is globally disabled, filenames are}
** ** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the}
** ** database connection is opened.}\(^\text{)}}\ ^\text{By default, URI handling is globally}
** ** disabled.}\(^\text{)}}\ ^\text{The default value may be changed by compiling with the}
** [SQLITE_USE_URI] symbol defined.

**

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd> This option takes a single integer argument which is interpreted as
** a boolean in order to enable or disable the use of covering indices for
** full table scans in the query optimizer. The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** malfunction when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.

**

** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>

**

** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd> This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>

**

** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd> SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dl>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNlVkuI7/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and is thus free for

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts3ac-1.1 {
    db eval {

CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.  
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge volume will be the parent’s minimum volume.  
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transactionVolume Hedged
1 - 24990
2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.  
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,
I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001',
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

---ORiGiNaL MESSaGE-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

---ORiGiNaL MESSaGE-----
From: Bert Meyers
Sent: Tuesday, September 26, 2001 7:50 AM
To: Shift.DL-Portland
Subject: Re: worksheets

If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well. Thanks.

Dan
'OCTOBER SCHEDULE', 'TEAM,' 

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT'); 

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,' , 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.'); 

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin 
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!'); 

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.'); 

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick -- Here is the information on staffing and outside services. Call if you need anything else. 

Jim 

'); 

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages. In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know. ii

- About St Pauls.url

')

INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com', 'chris.germany@enron.com', 'Ingrid.Immer@Williams.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW!')
Here is a goody for you):

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rouke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,’,'TRV Notification: (West VaR - 11/07/2001)’. The report named: West VaR


INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,’,'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ;
LS HPL LSK IC       30.000 / Enron
');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice’, ‘Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira’);

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com’, 'Huber Internal Memo’, ‘Please look at this. I didn’t know how deep to go with the desk. Do you think this works.

’);

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com’, ”, ’George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160’);

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com’, ‘FW: Curve Fetch File’, ‘Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.
-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, "'Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
'));
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! -- New EAST books', 'This has to be done..................................

Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal :         East Northeast
Dick Jenkins:     East Marketeast

WK
'));
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their
calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John, I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');}
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team.  PLEASE DO NOT TAKE, BORROW OR USE this equipment.  Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s?  We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,
The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that. I felt this was the type of info you were looking for. Thanks!

Ben

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

Marcie, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?
'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

  - Finalize market analysis to refine business case, specifically projected revenue stream
  - Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/licensing  
Contract negotiations  

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

---

Thomas A Martin  
10/11/2000 03:55 PM  
To: Patrick Wade/HOU/ECT@ECT  
cc:  
Subject: Re: Guadalupe Power Partners LP  

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

---

agoeddard@nisource.com on 03/08/2001 09:16:57 AM  
To: " - *Koch, Kent" <kkoch@nisource.com>, " -  
*Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>  
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>  
Subject: Columbia Distribution”s Capacity Available for Release - Sum  

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com','tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com','','Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com','jack.speer@alcoa.com, crow@millernash.com, michelearly@earthlink.net','Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com','rlmichaelis@hormel.com','','Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com','trycooper@hotmail.com','FW: Contact Info','

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net','mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com','email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn’;

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley’);

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');

INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.
From: Bryce Baxter                           06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP:  Mike Carson
PWR-NG-LT-SERC:  Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP:  Mike Carson
EPMI-LT-SERC:  Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com.', 'Postings', 'Please see the attached.

ds

');
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

'};
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090 (principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two
links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
   included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on
new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email(from),[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio', '

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

'));
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
'));
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
'));
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',

<< File: enrontccs.xls >>

Open Source Used In SDWan 20.6.1 1715
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', ", 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', ", 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
"hi", "Hello Mark,

Guest access Chile", "Hi,

We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG";
'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now
-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:
give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

#### Load Schedule ####

$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15...talk to you');
INSERT INTO email([from],[to],[subject, body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', ' 
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolzprint.jpg');
    COMMIT;
} {} 

#############################################################################
# Everything above just builds an interesting test database. The actual #
# tests come after this comment.
#############################################################################

do_test fts3ac-1.2 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark'
    }
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'susan'
    }
} {24 40}
do_test fts3ac-1.4 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark susan'
    }
} {40}
do_test fts3ac-1.5 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'susan mark'
    }
} {40}
do_test fts3ac-1.6 {
execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
} {}
}
do_test fts3ac-1.7 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
} {24}
do_test fts3ac-1.9 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
} {6 17 24 25 38 40 42 73 74}
}
# Some simple tests of the automatic "offsets(email)" column. In the sample data set above, only one message, number 20, contains the words "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'gas reminder'
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'subject:gas reminder'
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'body:gas reminder'
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
WHERE subject MATCH 'gas reminder'
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "'child product'"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts3ac-4.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b>here <b>Christmas</b>e?? They have an 11:00 a.m. service and a <b>candlelight</b> service<b>...</b>}}
do_test fts3ac-4.3 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b><b>...</b>asset base for <b>potential</b> <b>reuse</b>/ licensing
    Contract negotiations<b>...</b>}}
do_test fts3ac-4.4 {

execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}

} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations }}
do_test fts3ac-4.5 {
    execsql {
        SELECT snippet(email,'<<<','>>>',' ') FROM email
        WHERE email MATCH 'first things'
    }
} {{[Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now ]}
do_test fts3ac-4.6 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'chris is here'
    }
} {{[<b>...</b><b>chris</b>.germany@enron.com” <<<b>chris</b><b>...bk>bet this <b>is</b> next
to<b>...bk>about going <b>here</b> Christmas
eve<b>...bk>}}
do_test fts3ac-4.7 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH "pursuant to"
    }
} {{[Erin:

<b>Pursuant</b> to your request, attached are the Schedule to the ISDA Master Agreement,
together<b>...</b>}}
do_test fts3ac-4.8 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'ancillary load davis'
    }
} {{[pete.<b>davis</b>@enron.com<b>...bk>3; No <b>ancillary</b> schedules awarded<b>...bk>detected in
<b>Load</b> schedule.

LOG<b>...</b>}}

# Combinations of AND and OR operators:
#
# do_test fts3ac-5.1 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'questar enron OR com'
    }
} {{[matt.smith@<b>enron</b>,<b>com</b>...bk>31 Keystone Receipts
15 <b>Quesstar</b> Pipeline

Open Source Used In SDWan 20.6.1 1722
do_test fts3ac-5.2 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@enron.com}}

do_test fts3ac-6.1 {
execsql {
  CREATE VIRTUAL TABLE ft USING fts3(one, two);
  INSERT INTO ft VALUES('', 'foo');
  INSERT INTO ft VALUES('foo', 'foo');
  SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
execsql {
  DELETE FROM ft WHERE one = 'foo';
  SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3}}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

<html>
<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">Copyright Release for Contributions To SQLite</h1>
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dedication to be an overt act of relinquishment in perpetuity of all present and future rights to the SQLite software under copyright law.
</p></li>

<li><p>
To the best of my knowledge and belief, the changes and enhancements that I have contributed to SQLite are either originally written by me or are derived from prior works which I have verified are also in the public domain and are not subject to claims of copyright by other parties.
</p></li>

<li><p>
To the best of my knowledge and belief, no individual, business, organization, government, or other entity has any copyright interest in the SQLite software as it existed on the SQLite website as of the date on the signature line below.
</p></li>

<li><p>
I agree never to publish any additional information to the SQLite website (by CVS, email, scp, FTP, or any other means) unless that information is an original work of authorship by me or is derived from prior published versions of SQLite.
I agree never to copy and paste code into the SQLite code base from other sources.
I agree never to publish on the SQLite website any information that would violate a law or breach a contract.
</p></li>

</ol>

<p>
<table width="100%" cellpadding="0" cellspacing="0">
<tr>
<td width="60%" valign="top">
Signature:
</td><td valign="top" align="left">
Date:
</td></tr>
<td colspan=2>
Name (printed):
</td>
</table>
</p>
No license file was found, but licenses were detected in source scan.

```c
)print dup( )cvs print
```

```c
Found in path(s):
* `{cvx $error/errorname get(Error
```

## 1.102 gdisk 1.0.3

### 1.102.1 Available under license:

**GNU GENERAL PUBLIC LICENSE**

Version 2, June 1991

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Preamble

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The primary ANTLR guy:

Terence Parr
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>.

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Janino - An embedded Java™ compiler

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XZ for Java 1.0 (2011-10-22)

http://tukaani.org/xz/java.html

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Byte Buddy is a code generation and manipulation library for creating and modifying Java classes during the runtime of a Java application and without the help of a compiler.

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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" /> 
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before analysis is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.
Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----

[IMPORTANT]
=====

The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.

=====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., you cannot copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----

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/*
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package org.apache.solr.security;

import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Function;
import java.util.regex.Pattern;
import java.util.stream.Collectors;
import com.google.common.collect.ImmutableSet;
import org.apache.solr.common.SolrException;
import org.apache.solr.common.util.Utils;
import static java.util.Collections.singleton;
import static java.util.Collections.singletonList;
import static org.apache.solr.common.params.CommonParams.NAME;

class Permission {
    String name;
    Set<String> path, role, collections, method;
    Map<String, Function<String[], Boolean>> params;
    PermissionNameProvider.Name wellKnownName;
    Map originalConfig;

    private Permission() {
    }

    static Permission load(Map m) {
        Permission p = new Permission();
        p.originalConfig = new LinkedHashMap<>(m);
        return p;
    }
}
String name = (String) m.get(NAME);
if (!m.containsKey("role")) throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, "role not specified");
p.role = readValueAsSet(m, "role");
if (PermissionNameProvider.Name.get(name)!= null) {
p.wellknownName = PermissionNameProvider.Name.get(name);
HashSet<String> disAllowed = new HashSet<>(knownKeys);
disAllowed.remove("role"); // these are the only
   disAllowed.remove(NAME); // allowed keys for well-known permissions
   disAllowed.remove("collection"); // allowed keys for well-known permissions
   disAllowed.remove("index");
   for (String s : disAllowed) {
      if (m.containsKey(s))
         throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, s + " is not a valid key for the
permission : " + name);
   }
}
p.name = name;
p.path = readSetSmart(name, m, "path");
p.collections = readSetSmart(name, m, "collection");
p.method = readSetSmart(name, m, "method");
Map<String, Object> paramRules = (Map<String, Object>) m.get("params");
if (paramRules != null) {
p.params = new LinkedHashMap<>();
for (Map.Entry<String, Object> e : paramRules.entrySet()) {
   if (e.getValue() == null) {
      p.params.put(e.getKey(), (String[] val) -> val == null);
   } else {
      List<String> patternStrs = e.getValue() instanceof List ?
         (List) e.getValue() :
         singletonList(e.getValue().toString());
      List patterns = patternStrs.stream()
         .map(it -> it.startsWith("REGEX:")) ?
         Pattern.compile(String.valueOf(it.substring("REGEX:".length())))
            : it
         .collect(Collectors.toList());
      p.params.put(e.getKey(), val -> {
         if (val == null) return false;
         for (Object pattern : patterns) {
            if (pattern instanceof String) {
               if (pattern.equals(s)) return true;
            } else if (pattern instanceof Pattern) {
               if (((Pattern) pattern).matcher(s).find()) return true;
            }
         }
      });
   }
}
return false;
}

/**
 * This checks for the defaults available other rules for the keys
 */
private static Set<String> readSetSmart(String permissionName, Map m, String key) {
    if (PermissionNameProvider.values.containsKey(permissionName) && !m.containsKey(key) &&
    "collection".equals(key)) {
        return PermissionNameProvider.Name.get(permissionName).collName;
    }
    Set<String> set = readValueAsSet(m, key);
    if ("method".equals(key)) {
        if (set != null) {
            for (String s : set) if (!HTTP_METHODS.contains(s)) return null;
        }
        return set;
    }
    return set == null ? singleton(null) : set;
}

/**
 * read a key value as a set. if the value is a single string ,
 * return a singleton set
 *
 * @param m   the map from which to lookup
 * @param key the key with which to do lookup
 */
static Set<String> readValueAsSet(Map m, String key) {
    Set<String> result = new HashSet<>();
    Object val = m.get(key);
    if (val == null) {
        if("collection".equals(key)) {
            //for collection collection: null means a core admin/ collection admin request
            // otherwise it means a request where collection name is ignored
            return m.containsKey(key) ? singleton(null) : singleton("*");
        }
        return null;
    }
    if (val instanceof Collection) {
        Collection list = (Collection) val;
        for (Object o : list) result.add(String.valueOf(o));
    } else if (val instanceof String) {
        result.add((String) val);
    }
    return result;
}

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} else {
    throw new RuntimeException("Bad value for : " + key);
}
return result.isEmpty() ? null : Collections.unmodifiableSet(result);

@Override
public String toString() {
    return Utils.toJSONString(originalConfig);
}

static final Set<String> knownKeys = ImmutableSet.of("collection", "role", "params", "path", "method", "NAME","index");
public static final Set<String> HTTP_METHODS = ImmutableSet.of("GET", "POST", "DELETE", "PUT", "HEAD");

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```
Local Variables:
ispell-local-pdict: "ispell-dict"
End:
```

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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quiero.txt, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
*uganda.txt* For Vim version 8.2. Last change: 2020 Jan 08

VIM REFERENCE MANUAL by Bram Moolenaar

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http://www.vim.org/iccf/
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You can also sponsor the development of Vim. Vim sponsors can vote for
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- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
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Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.
Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa
Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used. Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt. For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
  Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others:
Transfer to one of these accounts if possible:
  Postbank, account 4548774
  Swift code: INGB NL 2A
  IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
    Rabobank Lisse, account 3765.05.117
    Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruehihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:
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Arnaud LE HORS      BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)
                      Internet: lehors@sophia.inria.fr
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1.137 sqlite 3.22.0 1

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1.138 httpclient 4.5.12

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1.139 pcre 48.41

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Email local part: ph10
Email domain: cam.ac.uk


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1.140 jakarta-security-enterprise 1.0.1

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1.144 wildfly-jacorb 19.1.0.Final

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1.145 initramfs-tools 0.122ubuntu8.15

1.145.1 Available under license:

This package was debianized by Jeff Bailey <jbailey@ubuntu.com> on

The current Debian maintainer are maximilian attems <maks@debian.org>
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The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
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1.146 python-setuptools 20.7.0-1

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Building and Distributing Packages with Setuptools

``Setuptools`` is a collection of enhancements to the Python `distutils` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using `setuptools` look to the user like ordinary Python packages based on the `distutils`. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module` (a 12K .py file), your package will automatically download and install `setuptools` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:
* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on ``sys.path``, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or ``setup()`` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`_, and in-development versions of the `0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev
.. contents:: **Table of Contents**

.. _ez_setup.py: `bootstrap module`_

Developer's Guide

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Installing `setuptools`

================================

Please follow the `EasyInstall Installation Instructions`_ to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations`_ if you are installing anywhere other than Python's `site-packages` directory.

.. _EasyInstall Installation Instructions: easy_install.html#installation-instructions

.. _Custom Installation Locations: easy_install.html#custom-installation-locations

If you want the current in-development version of setuptools, you should first install a stable version, and then run:

```
   ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

=========

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools:

```
   from setuptools import setup, find_packages
   setup(
       name = "HelloWorld",
       version = "0.1",
       packages = find_packages(),
   )
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.
Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference` section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke::

    python setup.py sdist

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

    from setuptools import setup, find_packages
    setup(
        name = "HelloWorld",
        version = "0.1",
        packages = find_packages(),
        scripts = ['say_hello.py'],

        # Project uses reStructuredText, so ensure that the docutils get
        # installed or upgraded on the target machine
        install_requires = ['docutils>=0.3'],

        package_data = {
            # If any package contains *.txt or *.rst files, include them:
            '': ['*.txt', '*.rst'],
            # And include any *.msg files found in the 'hello' package, too:
            'hello': ['*.msg'],
        },

        # metadata for upload to PyPI
        author = "Me",
        author_email = "me@example.com",
        description = "This is an Example Package",
        license = "PSF",
        keywords = 'hello world example examples',
        url = "http://example.com/HelloWorld/",  # project home page, if any

        # could also include long_description, download_url, classifiers, etc.
    )

In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version
Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ```2.4``` or ```0.5```. Each series of digits is treated numerically, so releases ```2.1``` and ```2.1.0``` are different ways to spell the same release number, denoting the first subrelease of release 2. But ```2.10``` is the *tenth* subrelease of release 2, and so is a different and newer release from ```2.1``` or ```2.1.0```. Leading zeros within a series of digits are also ignored, so ```2.01``` is the same as ```2.1```, and different from ```2.0.1```.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ```2.4c1``` is *newer* than revision ```2.4.1```, which in turn is newer than ```2.4b1``` or ```2.4a1```. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like ```2.4-1``` and ```2.4pl3``` are newer than ```2.4```, but are *older* than ```2.4.1``` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ```alpha```, ```beta```, ```a```, ```c```, ```dev```, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ```2.4c1``` and ```2.4c1.0``` and ```2.4-c1``` all represent release candidate 1 of version ```2.4```, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter ```c```: ```pre```, ```preview```, and ```rc```. So, version ```2.4rc1``` and ```2.4pre1``` and ```2.4preview1``` are all the exact same version as ```2.4c1``` and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash ```-```. Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ```2.4-r1263``` might denote Subversion revision 1263 of a post-release patch of version ```2.4```. Or you might use ```2.4-20051127``` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example,
"0.6a9.dev-r41475" could denote Subversion revision 41475 of the in-
development version of the ninth alpha of release 0.6. Notice that "dev" is
a pre-release tag, so this version is a *lower* version number than "0.6a9",
which would be the actual ninth alpha of release 0.6. But the "-r41475" is
a post-release tag, so this version is *newer* than "0.6a9.dev".

For the most part, setuptools' interpretation of version numbers is intuitive,
but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number
  between them. Version "1.9adev" is the "adev" prerelease of "1.9", *not* a
development pre-release of "1.9a". Use "1.9a.dev" instead, as in
  "1.9a.dev", or separate the prerelease tags with a number, as in
  "1.9a0dev", "1.9a.dev", "1.9a0devv", and even "1.9.a.dev" are
  identical versions from setuptools' point of view, so you can use whatever
  scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way
  you think it will, you can use the `pkg_resources.parse_version()` function
to compare different version numbers::

    >>> from pkg_resources import parse_version
    >>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
    True
    >>> parse_version('2.1-rc2') < parse_version('2.1')
    True
    >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
    True

Once you've decided on a version numbering scheme for your project, you can
have setuptools automatically tag your in-development releases with various
pre- or post-release tags. See the following sections for more details:

* "Tagging and "Daily Build" or "Snapshot" Releases"_
* "Managing "Continuous Releases" Using Subversion"_
* The 'egg_info' command

New and Changed `"setup()"` Keywords
====================================

The following keyword arguments to `"setup()"` are added or changed by
`setuptools`. All of them are optional; you do not have to supply them
unless you need the associated `"setuptools"` feature.

`"include_package_data"`
If set to `"True"`, this tells `"setuptools"` to automatically include any
data files it finds inside your package directories that are specified by
your ``MANIFEST.in`` file. For more information, see the section below on 
`Including Data Files`_.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should 
be *excluded* from your package directories. You can use this to trim back 
any excess files included by ``include_package_data``. For a complete 
description and examples, see the section below on `Including Data Files`_.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a 
complete description and examples, see the section below on `Including 
Data Files`_. You do not need to use this option if you are using 
``include_package_data``, unless you need to add e.g. files that are 
generated by your setup script and build process. (And are therefore not 
in source control or are files that you don't want to include in your 
source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be 
safely installed and run from a zip file. If this argument is not 
supplied, the ``bdist_egg`` command will have to analyze all of your 
project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to 
be installed when this one is. See the section below on `Declaring 
Dependencies`_ for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings 
defining the entry points. Entry points are used to support dynamic 
discovery of services or plugins provided by a project. See `Dynamic 
Discovery of Services and Plugins`_ for details and examples of the format 
of this argument. In addition, this keyword is used to support `Automatic 
Script Creation`_.

``extras_require``
A dictionary mapping names of "extras" (optional features of your project) 
to strings or lists of strings specifying what other distributions must be 
installed to support those features. See the section below on `Declaring 
Dependencies`_ for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to 
be present in order for the *setup script* to run. `setuptools` will 
attempt to obtain these (even going so far as to download them using 
``EasyInstall``) before processing the rest of the setup script or commands.
This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `.eggs` directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to `install_requires` and `setup_requires`.

`dependency_links`
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by `setup_requires` or `tests_require`. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

`namespace_packages`
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's `zope` package is a namespace package, because subpackages like `zope.interface` and `zope.publisher` may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

`test_suite`
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite`. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.

`tests_require`
If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test`
command, `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

.. _test_loader:

``test_loader``

If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test "name" in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is `setuptools.command.test:ScanningLoader`. If you want to use the default `unittest` behavior, you can specify `unittest:TestLoader` as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

``eager_resources``

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `/`-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

``use_2to3``

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.
``convert_2to3_doctests``

List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``

A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

For simple projects, it's usually easy enough to manually add packages to the ``packages`` argument of ``setup()``. However, for very large projects (Twisted, PEAK, Zope, Chandler, etc.), it can be a big burden to keep the package list updated. That's what ``setuptools.find_packages()`` is for.

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a ``src`` or ``lib`` directory as the root of their source tree, and those projects would of course use ``''src''`` or ``''lib''`` as the first argument to ``find_packages()``. (And such projects also need something like ``'package_dir = {':src'}'`` in their ``setup()`` arguments, but that's just a normal distutils thing.)

Anyway, ``find_packages()`` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ``__init__.py`` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, ``find_packages(exclude=['*.tests'])`` will exclude all packages whose last name part is ``'tests'``. Or, ``find_packages(exclude=['*.tests', '*.tests.*'])`` will also exclude any subpackages of packages named ``'tests'``, but it still won't exclude a top-level ``'tests'`` package or the children thereof. In fact, if you really want no ``'tests'`` packages at all, you'll need something like this:

``find_packages(exclude=['*.tests', '*.tests.*', 'tests.*', 'tests'])``

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the ``find_packages()``
function returns a list of package names suitable for use as the `"packages"` argument to `"setup()"`, and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

**Automatic Script Creation**

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the `"-m"` option only works for actual `".py"` files that aren't installed in a package.

`"setuptools"` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `".exe"` file so that users don't have to change their `"PATHEXT"` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called "foo" and "bar", and a GUI script called "baz", you might do something like this:

```python
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ]
    })
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of `"foo"`, `"bar"`, and `"baz"` scripts will be installed that import `"main_func"` and `"some_func"` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `"sys.exit()"`, so you can return an errorlevel or message to print to stderr.

On Windows, a set of `"foo.exe"`, `"bar.exe"`, and `"baz.exe"` launchers are created, alongside a set of `"foo.py"`, `"bar.py"`, and `"baz.pyw"` files. The `".exe"` wrappers find and execute the right version of Python to run the
".py" or ".pyw" file.

You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to "sys.path" when the script is run. For more information on "extras", see the section below on 'Declaring Extras'. For more information on "entry points" in general, see the section below on 'Dynamic Discovery of Services and Plugins'.

"Eggsecutable" Scripts

----------------------

Occasionally, there are situations where it's desirable to make an "egg" file directly executable. You can do this by including an entry point such as the following:

```python
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`. The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `~/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, "pkg_resources" will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies
``setuptools`` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

``setuptools`` and ``pkg_resources`` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators `\`<\`, `\`>`\`, `\`<=\`, `\`>=\`, `\`==\` or `\`!=\`, followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `$\$``.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. ```>`\`1, `>`\`2``` becomes ```>`\`1```), and ```<\`2,>`\`3``` becomes ```<\`3```). ```!=\``` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. ```<\`2,>`\`2``` or ```==\`2,!=\`2``` is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

- docutils $\geq\$ 0.3
- BazSpam $\equiv\$ 1.1, $\equiv\$ 1.2, $\equiv\$ 1.3, $\equiv\$ 1.4, $\equiv\$ 1.5
  - $\equiv\$ 1.6, $\equiv\$ 1.7  # and so are line-end comments
- PEAK[FastCGI, reST] $\equiv\$ 0.5a4
- setuptools $\equiv\$ 0.5a7

The simplest way to include requirement specifiers is to use the ```install_requires``` argument to ```setup()``` . It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, ```setup.py install```, or ```setup.py develop```, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.
2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`.)

Dependencies that aren't in PyPI
--------------------------------

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `*.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `*.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `*.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version`
in order to identify for what package that checkout should be used. You can append `@REV` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- `svn+URL` for Subversion,
- `git+URL` for Git, and
- `hg+URL` for Mercurial

A more complete example would be:

``vcs+proto://host/path@revision#egg=project-version``

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the `requires` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run `setup.py bdist_egg`.

The `dependency_links` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed::

``setup(
    ...
    dependency_links = [
        "http://peak.telecommunity.com/snapshots/
    ],
)
``

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

---------------------------------------------------------------

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their `install_requires`.

For example, let's say that Project A offers optional PDF and reST support::
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ['ReportLab>1.2', 'RXP'],
        'reST': ['docutils>0.3'],
    }
)

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

setup(
    name="Project-B",
    install_requires = ['Project-A[PDF]'],
    ...
)

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature
name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its `extras_require` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ['"docutils>=0.3"'],
    }
)
```

so that Package B doesn't have to remove the `"[PDF]"` from its requirement specifier.

Including Data Files
====================

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `include_package_data` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control`
If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ``package_data`` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(...
    package_data = {
    # If any package contains *.txt or *.rst files, include them:
    '': [ '*.txt', '*.rst' ],
    # And include any *.msg files found in the 'hello' package, too:
    'hello': [ '*.msg' ],
}
```

The ``package_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this::

```
setup.py
src/
    mypkg/
        __init__.py
        mypkg.txt
    data/
        somefile.dat
        otherdata.dat
```

The setuptools setup file might look like this::

```python
from setuptools import setup, find_packages
setup(...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},  # tell distutils packages are under src

    package_data = {
    # If any package contains *.txt files, include them:
    ': [ '*.txt' ],
    # And include any *.dat files found in the 'data' subdirectory
    # of the 'mypkg' package, also:
    'mypkg': [ 'data/*.dat' ],
}
```

Notice that if you list patterns in `package_data` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the `mypkg.txt` file gets included even though it's not listed in the patterns for `mypkg`.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the `package_data` argument was previously only available in `setuptools`, it was also added to the Python `distutils` package as of Python 2.4; there is *some* documentation for the feature available on the python.org website. If using the setuptools-specific `include_package_data` argument, files specified by `package_data` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

__ http://docs.python.org/dist/node11.html

Sometimes, the `include_package_data` or `package_data` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an `exclude_package_data` option as well, that allows you to do things like this:

```python
from setuptools import setup, find_packages

setup(
    #...but exclude README.txt from all packages
    exclude_package_data = { '' : [ 'README.txt' ] },
)
```

The `exclude_package_data` option is a dictionary mapping package names to lists of wildcard patterns, just like the `package_data` option. And, just as with that option, a key of `''` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in `package_data` or were included as a result of using `include_package_data`.

In summary, the three options allow you to:

```
include_package_data
```
Accept all data files and directories matched by `MANIFEST.in`.

``package_data``

Specify additional patterns to match files and directories that may or may not be matched by `MANIFEST.in` or found in source control.

``exclude_package_data``

Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run `setup.py clean --all` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run `setup.py clean --all`.

Accessing Data Files at Runtime
-------------------------------

Typically, existing programs manipulate a package's `__file__` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of `pkg_resources` to access them. The `pkg_resources` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses `__file__` to use `pkg_resources` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
----------------------

The `distutils` normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. `setuptools` does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management`
API_, by specifying a `Requirement` instead of a package name::

```python
from pkg_resources import Requirement, resource_filename
filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")
```

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the ``shutil`` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction
--------------------------------

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the "eager_resources" argument to "setup()", so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than ``.dll``, ``.so``, or ``.dylib``, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as "eager_resources", because they need to be present in the filesystem when he C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and "eager_resources" at the same time, whenever *any* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they
expect to see.

Note also that you can list directory resource names in ``eager_resources`` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs "real" files in your project before there's any possibility of ``eager_resources`` being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
------------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ``blogtool.parsers``, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an
`.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool:

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```python
setup(
    # ...
    entry_points = ""
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    ""
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
-------------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a distutils extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on
Creating distutils Extensions for more details, especially the subsection on Adding new EGG-INFO Files.

"Development Mode"

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have
multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using ```setup.py develop --uninstall```, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the ```develop``` command; see the section on the ``develop`_ command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this::

    python -c "import setuptools; execfile('setup.py')" develop

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a ```setuptools```-based project
==============================================

Your users might not have ```setuptools``` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`_, and put it in the same directory as your ```setup.py``` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

.. code-block:: python

    import ez_setup
    ez_setup.use_setuptools()

That's it. The ```ez_setup``` module will automatically download a matching version of ```setuptools``` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' ```ez_setup.py``` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use ```setup.py sdist upload``` or ```setup.py bdist_egg upload``` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use ```setup.py register``` to do that. Or you can do it all in one step, e.g. ```setup.py register sdist`
bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they’ll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of “`setuptools`”, you can specify the exact version and base download URL as parameters to the “`use_setuptools()`” function. See the function’s docstring for details.)

What Your Users Should Know
---------------------------

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to `"site-packages```, that is. But for some users, these conditions don’t apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project’s installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and `"easy_install```.

Network Access

If your project is using `"ez_setup```, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`_. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations

You should inform your users that if they are installing your project to somewhere other than the main `"site-packages``` directory, they should first install setuptools using the instructions for `Custom Installation Locations`_, before installing your project.

Your Project’s Dependencies

If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don’t have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `"easy_install```, or your project will not know they are installed, and your setup script will try to download them again.)

If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited...
network access can manually download all the eggs to a single directory, then use the ``-f`` option of ``easy_install`` to specify the directory to find eggs in. Users who have full network access can just use ``-f`` with the URL of your download page, and ``easy_install`` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers

Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use ``setup.py develop`` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run ``setup.py clean --all`` and delete any obsolete ``.pyc`` or ``.pyo``. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages

Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn't ``easy_install``! Setuptools currently supports ``bdist_rpm``, ``bdist_wininst``, and ``bdist_dumb`` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils ``install`` command, it should be able to work with "setuptools". Some examples of "bdist" formats that this should work with include the "bdist_nsi" and "bdist_msi" formats for Windows.

However, packaging tools that build binary distributions by running ``setup.py install`` on the command line or as a subprocess will require modification to work with setuptools. They should use the ``--single-version-externally-managed`` option to the ``install`` command, combined with the standard ``--root`` or ``--record`` options. See the `install command` documentation below for more details. The "bdist_deb" command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.
For maximum performance, Python packages are best installed as zip files. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, `setuptools` can install your project as a zipfile or a directory, and its default choice is determined by the project's `zip_safe` flag.

You can pass a True or False value for the `zip_safe` argument to the `setup()` function, or you can omit it. If you omit it, the `bdist_egg` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the `bdist_egg` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no `__file__` or `__path__` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses `pkg_resources` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if `bdist_egg` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set `zip_safe` to `True` in your `setup()` call. If it turns out that it doesn't work, you can always change it to `False`, which will force `setuptools` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run `setup.py easy_install --zip-ok .` or `setup.py easy_install --always-unzip .` in your project directory to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the `pkg_resources` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of "True" or "False" for the `zip_safe` flag, so that it will not be necessary for "bdist_egg" or "EasyInstall" to
try to guess whether your project can work as a zipfile.

Namespace Packages
-------------------

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The "pkg_resources" runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this::

```python
setup(  
    # ...
    namespace_packages = ['zope']
)
```

because it contains a `zope.interface` package that lives in the `zope` namespace package. Similarly, a project for a standalone `zope.publisher` would also declare the `zope` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" `zope` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's `zope.app` package is a namespace package, and in the future PEAK's `peak.util` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' `__init__.py` files (and the `__init__.py` of any parent packages), in a normal Python package layout. These `__init__.py` files *must* contain the line::

```python
__import__('pkg_resources').declare_namespace(__name__)
```

This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.

You must NOT include any other code and data in a namespace package's
``__init__.py``. Even though it may appear to work during development, or when projects are installed as `.egg` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the ``__init__.py`` files will not be installed, let alone executed.

You must include the ``declare_namespace()`` line in the ``__init__.py`` of *every* project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of ``__init__.py`` is loaded first. If the first loaded ``__init__.py`` doesn't declare it, it will never be declared, because no other copies will ever be loaded!

**TRANSITIONAL NOTE**

Setuptools automatically calls ``declare_namespace()`` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the pkg_resources runtime, and also the need for pkg_resources to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing ``declare_namespace()`` calls in your ``__init__.py`` files, and you should correct these as soon as possible before the compatibility support is removed.

Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

**Tagging and "Daily Build" or "Snapshot" Releases**

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!

To support these scenarios, setuptools allows you to "tag" your source and
egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (`--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (`--tag-svn-revision, -r``)

* An 8-character representation of the build date (`--tag-date, -d``), as a postrelease tag

You can add these tags by adding `egg_info` and the desired options to the command line ahead of the `sdist` or `bdist` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info` command for more details.

(Also, before you release your project, be sure to see the section above on Specifying Your Project's Version for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate` command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like::

```bash
setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3
```

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias` command, which would let each package define an alias like `daily` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run `setup.py daily` in each project directory. (And, you could also define sitewide or per-user default versions of the `daily` alias, so that projects that didn't define their own would use the appropriate defaults.)
Generating Source Distributions
---------------------------------

``setuptools`` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a ``MANIFEST.in`` file. See the section below on `Adding Support for Revision Control Systems`_ for information on plugins.

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a ``MANIFEST.in`` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with ``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's `.egg-info` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its ``sdist`` command omits nearly all of the options that the distutils' more complex ``sdist`` process requires. For all practical purposes, you'll probably use only the ``--formats`` option, if you use any option at all.

Making your package available for EasyInstall
-----------------------------------------------

If you use the ``register`` command (``setup.py register``) to register your package with PyPI, that's most of the battle right there. (See the `docs for the register command`_ for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.
So here's what you need to do before running the `register` command. There are three `setup()` arguments that affect EasyInstall:

``url`` and `download_url`

These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links.

``long_description``

EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an ``#egg=project`` or ``#egg=project-version`` fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your `url` or `download_url` point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either ``#egg=project`` or ``#egg=project-version`` added to the URL. You should replace `project` and `version` with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the ``#egg=`` suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., ``#egg=projectname-dev``), so that users can do something like this::

    easy_install --editable projectname==dev

in order to check out the in-development version of `projectname`.

Managing "Continuous Releases" Using Subversion

-----------------------------------------------
If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's ``setup.cfg`` file:

```ini
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell ``setuptools`` to generate package version numbers like ``1.0a1.dev-r1263``', which will be considered to be an *older* release than ``1.0a1``. Thus, when you actually release ``1.0a1``, the entire egg infrastructure (including ``setuptools``, ``pkg_resources`` and EasyInstall) will know that ``1.0a1`` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in ``setup.py`` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the `tag_build=.dev`, and always use the *last* release as a version number, so that your post-1.0 builds are labelled `1.0-r1263`, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an `#egg=projectname-dev` suffix. This allows users to request EasyInstall to download `projectname==dev` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include `==dev`, e.g.:

```python
install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an `#egg=OtherProject-dev` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.
A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run `setup.py develop` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run `setup.py develop` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

```
python setup.py egg_info -RDb "" sdist bdist_egg register upload
```

The first part of this command (`egg_info -RDb ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RDb ""
```

You can then use it like this::

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info` and `alias` commands for more ideas.

Distributing Extensions compiled with Pyrex
`setuptools` includes transparent support for building Pyrex extensions, as long as you define your extensions using `setuptools.Extension`, *not* `distutils.Extension`. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list `.pyx` files as the source of your `Extension` objects in the setup script. `setuptools` will detect at build time whether Pyrex is installed or not. If it is, then `setuptools` will use it. If not, then `setuptools` will silently change the `Extension` objects to refer to the `.c` counterparts of the `.pyx` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original `.pyx` files. This means that you will probably want to include current `.c` files in your revision control system, rebuilding them whenever you check changes in for the `.pyx` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

-----------------
Command Reference
-----------------

.. _alias:
``alias`` - Define shortcuts for commonly used commands

``alias`` - Define shortcuts for commonly used commands

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different `egg_info` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setup tools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using `setup.py alias aliasname expansion`, where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various `egg_info` tagging options::

```
``
setup.py alias --global-config daily egg_info --tag-svn-revision \ 
--tag-build=development

Once the alias is defined, it can then be used with other setup commands, e.g.::

    setup.py daily bdist_egg     # generate a daily-build .egg file
    setup.py daily sdist            # generate a daily-build source distro
    setup.py daily sdist bdist_egg  # generate both

The above commands are interpreted as if the word ``daily`` were replaced with ```egg_info --tag-svn-revision --tag-build=development```

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias::

    setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg

redefines the ``bdist_egg`` command so that it always runs the ``rotate`` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on ``bdist_egg`` because the alias is only expanded once when used.

You can remove a defined alias with the ``--remove`` (or ``-r``) option, e.g.::

    setup.py alias --global-config --remove daily

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options`_ (listed under the `saveopts`_ command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the ``alias`` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

``bdist_egg`` - Create a Python Egg for the project

====================================================================
This command generates a Python Egg (``.egg`` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to ``sys.path`` directly, or they can be placed in a directory on ``sys.path`` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (``.egg-info``) directory. If you have added any extra metadata files to the ``.egg-info`` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use ``bdist_egg`` and you're done. But there are a few options that may be occasionally useful:

``--dist-dir=DIR, -d DIR``
Set the directory where the ``.egg`` file will be placed. If you don't supply this, then the ``--dist-dir`` setting of the `bdist` command will be used, which is usually a directory named ``dist`` in the project directory.

``--plat-name=PLATFORM, -p PLATFORM``
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

``--exclude-source-files``
Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.
There are also some options you will probably never need, but which are there because they were copied from similar `bdist` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

`--keep-temp, -k`
Keep the contents of the `--bdist-dir` tree around after creating the `.egg` file.

`--bdist-dir=DIR, -b DIR`
Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the `.egg` file, after running various installation commands to copy the package's modules, data, and extensions here.

`--skip-build`
Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The `develop` command works by creating an `.egg-link` file (named for the project) in the given staging area. If the staging area is Python's `site-packages` directory, it also updates an `easy-install.pth` file so that the project is on `sys.path` by default for all programs run using that Python installation.

The `develop` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on `sys.path` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the `develop` command invokes the `build_ext -i` command to ensure any C extensions in the project have been built and are up-to-date, and the `egg_info` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies are). If you make any changes to the project's setup script or C extensions,
you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

``--uninstall, -u``

Un-deploy the current project. You may use the `--install-dir` or `--d` option to designate the staging area. The created `.egg-link` file will be removed, if present and it is still pointing to the project directory. The project directory will be removed from `easy-install.pth` if the staging area is Python's `site-packages` directory.

Note that this option currently does *not* uninstall script wrappers! You must uninstall them yourself, or overwrite them by using EasyInstall to activate a different version of the package. You can also avoid installing script wrappers in the first place, if you use the `--exclude-scripts` (aka `--x`) option when you run `develop` to deploy the project.

``--multi-version, -m``

"Multi-version" mode. Specifying this option prevents `develop` from adding an `easy-install.pth` entry for the project(s) being deployed, and if an entry for any version of a project already exists, the entry will be removed upon successful deployment. In multi-version mode, no specific version of the package is available for importing, unless you use `pkg_resources.require()` to put it on `sys.path`, or you are running a wrapper script generated by `setuptools` or EasyInstall. (In which case the wrapper script calls `require()` for you.)

Note that if you install to a directory other than `site-packages`, this option is automatically in effect, because `.pth` files can only be used in `site-packages` (at least in Python 2.3 and 2.4). So, if you use the `--install-dir` or `--d` option (or they are set via configuration file(s)) your project and its dependencies will be deployed in multi-version mode.

``--install-dir=DIR, -d DIR``

Set the installation directory (staging area). If this option is not directly specified on the command line or in a distutils configuration
file, the distutils default installation location is used. Normally, this will be the ``site-packages`` directory, but if you are using distutils configuration files, setting things like ``prefix`` or ``install_lib``, then those settings are taken into account when computing the default staging area.

``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an ``--install-dir`` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they are already present in another directory on ``sys.path``. By default, if a requirement can be met using a distribution that is already available in a directory on ``sys.path``, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the ``develop`` command also accepts all of the same options accepted by ``easy_install``. If you've configured any ``easy_install`` settings in your `setup.cfg` (or other distutils config files), the ``develop`` command will use them as defaults, unless you override them in a ``[develop]`` section or on the command line.

``easy_install`` - Find and install packages
=============================================
This command runs the `EasyInstall tool` <easy_install.html> for you. It is exactly equivalent to running the ``easy_install`` command. All command line arguments following this command are consumed and not processed further by the distutils,
so this must be the last command listed on the command line. Please see
the EasyInstall documentation for the options reference and usage examples.
Normally, there is no reason to use this command via the command line, as you
can just use `easy_install` directly. It's only listed here so that you know
it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your `setup.cfg` or other distutils config
  files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags
=====================================================

This command performs two operations: it updates a project's `.egg-info`
metadata directory (used by the `bdist_egg`, `develop`, and `test`
commands), and it allows you to temporarily change a project's version string,
to support "daily builds" or "snapshot" releases. It is run automatically by
the `sdist`, `bdist_egg`, `develop`, `register`, and `test` commands
in order to update the project's metadata, but you can also specify it
explicitly in order to temporarily change the project's version string while
executing other commands. (It also generates the `.egg-info/SOURCES.txt`
manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by `setuptools` and
required by `pkg_resources`, this command can be extended to write other
metadata files as well, by defining entry points in the `egg_info.writers`
group. See the section on `Adding new EGG-INFO Files` below for more details.
Note that using additional metadata writers may require you to include a
`setup_requires` argument to `setup()` in order to ensure that the desired
writers are available on `sys.path`.

Release Tagging Options
-----------------------

The following options can be used to modify the project's version string for
all remaining commands on the setup command line. The options are processed
in the order shown, so if you use more than one, the requested tags will be
added in the following order:

``--tag-build=NAME, -b NAME``

Append NAME to the project's version string. Due to the way setuptools
processes "pre-release" version suffixes beginning with the letters "a"
through "e" (like "alpha", "beta", and "candidate"), you will usually want
to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--b ""` or `--tag-build=""` as an argument to the `egg_info` command.

``--tag-svn-revision, -r``

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory), this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a "-rNNNN" string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with `-r` and a number, then `-r0` is used.

``--no-svn-revision, -R``

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

``--tag-date, -d``

Add a date stamp of the form `-YYYYMMDD` (e.g. `-20050528`) to the project's version number.

``--no-date, -D``

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on `Specifying Your Project's Version` for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your your project.)

For advanced uses, there is one other option that can be set, to change the
location of the project's `.egg-info` directory. Commands that need to find
the project's source directory or metadata should get it from this setting:

Other `egg_info` Options
----------------------------
``--egg-base=SOURCEDIR, -e SOURCEDIR``
Specify the directory that should contain the .egg-info directory. This
should normally be the root of your project's source tree (which is not
necessarily the same as your project directory; some projects use a `src`
or `lib` subdirectory as the source root). You should not normally need
to specify this directory, as it is normally determined from the
`package_dir` argument to the `setup()` function, if any. If there is
no `package_dir` set, this option defaults to the current directory.

`egg_info` Examples
---------------------
Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default
tags are specified in `setup.cfg`::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that `egg_info` must always appear on the command line *before* any
commands that you want the version changes to apply to.)

.. _install command:
``install`` - Run `easy_install` or old-style installation
============================================================================
The setuptools `install` command is basically a shortcut to run the
`easy_install` command on the current project. However, for convenience
in creating "system packages" of setuptools-based projects, you can also
use this option:
``--single-version-externally-managed``
This boolean option tells the `install` command to perform an "old style"
installation, with the addition of an `.egg-info` directory so that the
installed project will still have its metadata available and operate
normally. If you use this option, you *must* also specify the `--root`
or `--record` options (or both), because otherwise you will have no way
to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another
distutils command, so that commands like `bdist_wininst` and `bdist_rpm`
will create system packages of eggs. It is also automatically in effect if
you specify the `--root` option.

```
install_egg_info` - Install an `.` directory in `site-packages`
```

Setuptools runs this command as part of `install` operations that use the
``--single-version-externally-managed`` options. You should not invoke it
directly: it is documented here for completeness and so that distutils
extensions such as system package builders can make use of it. This command
has only one option:

```
--install-dir=DIR, -d DIR``

The parent directory where the `.egg-info` directory will be placed.
Defaults to the same as the `--install-dir` option specified for the
``install_lib`` command, which is usually the system `site-packages``
directory.

This command assumes that the `.egg_info` command has been given valid options
via the command line or `.setup.cfg`, as it will invoke the `.egg_info``
command and use its options to locate the project's source `.egg-info``
directory.

```
_rotate:
```

`rotate` - Delete outdated distribution files

As you develop new versions of your project, your distribution (`dist`)directory will gradually fill up with older source and/or binary distribution
files. The `rotate` command lets you automatically clean these up, keeping
only the N most-recently modified files matching a given pattern.

```
--match=PATTERNLIST, -m PATTERNLIST``

Comma-separated list of glob patterns to match. This option is *required*.
The project name and `*` is prepended to the supplied patterns, in order
to match only distributions belonging to the current project (in case you
have a shared distribution directory for multiple projects). Typically,
you will use a glob pattern like `*.zip` or `*.egg` to match files of
the specified type. Note that each supplied pattern is treated as a
distinct group of files for purposes of selecting files to delete.
``--keep=COUNT, -k COUNT``
Number of matching distributions to keep. For each group of files identified by a pattern specified with the ``--match`` option, delete all but the COUNT most-recently-modified files in that group. This option is *required*.

``--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to the value of the ``bdist`` command's ``--dist-dir`` option, which will usually be the project's ``dist`` subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except for the 3 most recently modified ones::

```bash
setup.py rotate --match=.tar.gz --keep=3
```

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution directory, except the most recently modified one for each Python version::

```bash
setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1
```

.. _saveopts:
``saveopts`` - Save used options to a configuration file

`saveopts` - Save used options to a configuration file

Finding and editing ``distutils`` configuration files can be a pain, especially since you also have to translate the configuration options from command-line form to the proper configuration file format. You can avoid these hassles by using the ``saveopts`` command. Just add it to the command line to save the options you used. For example, this command builds the project using the ``mingw32`` C compiler, then saves the --compiler setting as the default for future builds (even those run implicitly by the `install` command)::

```bash
setup.py build --compiler=mingw32 saveopts
```

The ``saveopts`` command saves all options for every command specified on the command line to the project's local ``setup.cfg`` file, unless you use one of the `configuration file options` to change where the options are saved. For example, this command does the same as above, but saves the compiler setting to the site-wide (global) distutils configuration::

```bash
setup.py build --compiler=mingw32 saveopts -g
```

Note that it doesn't matter where you place the ``saveopts`` command on the command line; it will still save all the options specified for all commands.
For example, this is another valid way to spell the last example::

    setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of where ``saveopts`` is placed on the command line.

Configuration File Options
-------------------------------

Normally, settings such as options and aliases are saved to the project's local ``setup.cfg`` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
Save settings to the global ``distutils.cfg`` file inside the ``distutils`` package directory. You must have write access to that directory to use this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option with ``-g`` or ``-f``.

``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with ``-g`` or ``-u``. Note that if you specify a non-standard filename, the ``distutils`` and ``setuptools`` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ``setuptools`` commands that modify configuration files, such as the `alias`_ and `setopt`_ commands.

.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file
==================================================================

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ``mingw32`` (using long option names)::
setup.py setopt --command=build --option=compiler --set-value=mingw32

**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

    setup.py setopt -c install -o install_lib -r

Options for the `setopt` command:

```
``command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

```
``option=OPTION, -o OPTION``
The name of the option to set. This option is required.

```
``set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if `--remove` is set.

```
``--remove, -r``
Remove (unset) the option, instead of setting it.

In addition to the above options, you may use any of the `configuration file options` (listed under the `saveopts` command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. _test:
``test`` - Build package and run a unittest suite

===============================================

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `Test` class or method, or a module or package containing `Test` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be run. If the named suite is a package, any submodules and subpackages are
recursively added to the overall test suite. (Note: if your project specifies a ``test_loader``, the rules for processing the chosen ``test_suite`` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including ``doctest`` support wrapping their non-``unittest`` tests in ``TestSuite`` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the ``unittest`` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the ``-q`` or ``--quiet`` option, either as a global option to the setup script (e.g. ``setup.py -q test``) or as an option for the ``test`` command itself (e.g. ``setup.py test -q``). There is one other option available:

``--test-suite=NAME, -s NAME``

Specify the test suite (or module, class, or method) to be run (e.g. ``some_module.test_suite``). The default for this option can be set by giving a ``test_suite`` argument to the ``setup()`` function, e.g.::

```python
setup(
    # ...
    test_suite = "my_package.tests.test_all"
)
```

If you did not set a ``test_suite`` in your ``setup()`` call, and do not provide a ``--test-suite`` option, an error will occur.

.. _upload:

``upload`` - Upload source and/or egg distributions to PyPI

========================================================================================================================

The `upload` command is implemented and documented <https://docs.python.org/3.1/distutils/uploading.html>_ in distutils.

Setuptools augments the `upload` command with support for `keyring` allowing the password to be stored in a secure location and not in plaintext in the .pypirc file. To use keyring, first install keyring and set the password for the relevant repository, e.g.::

```bash
python -m keyring set <repository> <username>
```
Password for `<username>` in `<repository>`: ********

Then, in .pypirc, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.

.. _upload_docs:

``upload_docs`` - Upload package documentation to PyPI

============================================================================

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.

The ``upload_docs`` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI using the distutils ``register`` command -- just like the ``upload`` command.

Assuming there is an `Example` project with documentation in the subdirectory `docs`, e.g.::

Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
 | |-- build
 | | `-- html
 | | | | |-- index.html
 | | | | `-- tips_tricks.html
 | |-- conf.py
 | |-- index.txt
 | `-- tips_tricks.txt

You can simply pass the documentation directory path to the ``upload_docs`` command::

    python setup.py upload_docs --upload-dir=docs/build/html

If no ``--upload-dir`` is given, ``upload_docs`` will attempt to run the `build_sphinx` command to generate uploadable documentation.

For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_ must be installed in the same environment as distribute.
As with other ``setuptools``-based commands, you can define useful
defaults in the ``setup.cfg`` of your Python project, e.g.:

```ini
[upload_docs]
upload-dir = docs/build/html
```

The ``upload_docs`` command has the following options:

```
--upload-dir
The directory to be uploaded to the repository.

--show-response
Display the full response text from server; this is useful for debugging
PyPI problems.

--repository=URL, -r URL
The URL of the repository to upload to. Defaults to
https://pypi.python.org/pypi (i.e., the main PyPI installation).
```

Extending and Reusing Setuptools
--------------------------------

Creating ``distutils`` Extensions
==================================

It can be hard to add new commands or setup arguments to the distutils. But
the ``setuptools`` package makes it a bit easier, by allowing you to distribute
a distutils extension as a separate project, and then have projects that need
the extension just refer to it in their ``setup_requires`` argument.

With ``setuptools``, your distutils extension projects can hook in new
commands and ``setup()`` arguments just by defining "entry points". These
are mappings from command or argument names to a specification of where to
import a handler from. (See the section on `Dynamic Discovery of Services and
Plugins` above for some more background on entry points.)

Adding Commands
---------------

You can add new ``setup`` commands by defining entry points in the
``distutils.commands`` group. For example, if you wanted to add a ``foo``
command, you might add something like this to your distutils extension
project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

Adding `setup()` Arguments
----------------------------

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's setup script::

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called to validate the `setup()` argument, if it's supplied. The `Distribution`
object will have the initial value of the attribute set to "None", and the validation function will only be called if the "setup()" call sets it to a non-None value. Here's an example validation function:

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr,value)
        )
```

Your function should accept three arguments: the `Distribution` object, the attribute name, and the attribute value. It should raise a `DistutilsSetupError` (from the `distutils.errors` module) if the argument is invalid. Remember, your function will only be called with non-None values, and the default value of arguments defined this way is always None. So, your commands should always be prepared for the possibility that the attribute will be "None" when they access it later.

If more than one active distribution defines an entry point for the same `setup()` argument, *all* of them will be called. This allows multiple distutils extensions to define a common argument, as long as they agree on what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch the distutils `Distribution` class in order to add your arguments; it is sufficient to define the entry points in your extension, as long as any setup script using your extension lists your project in its `setup_requires` argument.

Adding new EGG-INFO Files
-------------------------

Some extensible applications or frameworks may want to allow third parties to develop plugins with application or framework-specific metadata included in the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension to be used from the plugin projects' setup scripts (via `setup_requires`) that defines a new setup keyword, and then uses that data to write an EGG-INFO file when the `egg_info` command is run.

The `egg_info` command looks for extension points in an `egg_info.writers` group, and calls them to write the files. Here's a simple example of a distutils extension defining a setup argument `foo_bar`, which is a list of lines that will be written to `foo_bar.txt` in the EGG-INFO directory of any project that uses the argument::
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like:

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '\n'.join(value)+'\n'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, ``egg_info.writers`` entry points must be a function taking three arguments: a ``egg_info`` command instance, the basename of the file to write (e.g. `"foo_bar.txt"`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the `cmd` object's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

### Adding Support for Revision Control Systems

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked by another revision control system, you can do so by adding an entry point to
the `'setuptools.file_finders` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobar", you would write a function something like this:

```python
.. code-block:: python

def find_files_for_foobar(dirname):
    # loop to yield paths that start with `dirname`

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [ 
        "foobar = my_foobar_module:find_files_for_foobar"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `setup_requires`. When you create a source distribution with the `sdist` command, setuptools automatically records what files were found in the `SOURCES.txt` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named `some/dir` under the current directory should NOT be rendered as `./some/dir` or `somewhere/some/dir`, but *always* as simply `some/dir`.

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision control system itself. It *may*, however, use ``distutils.log.warn()`` to
inform the user of the missing program(s).

Subclassing ``Command``
-----------------------

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX

Reusing ``setuptools`` Code
===========================
``ez_setup``
------------
XXX

``setuptools.archive_util``
-----------------------------
XXX

``setuptools.sandbox``
----------------------
XXX

``setuptools.package_index``
----------------------------
XXX

Mailing List and Bug Tracker
============================
Please use the `distutils-sig mailing list`_ for questions and discussion about setuptools, and the `setuptools bug tracker`_ ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.

.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/
.. _setuptools bug tracker: https://github.com/pypa/setuptools/

Found in path(s):
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/docs/setuptools.txt

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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/pyparsing.py

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Metadata-Version: 1.1
Name: setuptools
Version: 20.7.0
Summary: Easily download, build, install, upgrade, and uninstall Python packages
Home-page: https://github.com/pypa/setuptools
Author: Python Packaging Authority
Author-email: distutils-sig@python.org
License: UNKNOWN
Description: ================

Installing and Using Setuptools

===============

.. contents:: **Table of Contents**

`Change History <https://pythonhosted.org/setuptools/history.html>`

Installation Instructions

The recommended way to bootstrap setuptools on any system is to download
`ez_setup.py` and run it using the target Python environment. Different
operating systems have different recommended techniques to accomplish this
basic routine, so below are some examples to get you started.

Setuptools requires Python 2.6 or later. To install setuptools
on Python 2.4 or Python 2.5, use the `bootstrap script for Setuptools 1.x`
The link provided to ez_setup.py is a bookmark to bootstrap script for the latest known stable release.

.. _ez_setup.py: https://bootstrap.pypa.io/ez_setup.py

Windows (Powershell 3 or later)
================================

For best results, uninstall previous versions FIRST (see `Uninstalling`).

Using Windows 8 (which includes PowerShell 3) or earlier versions of Windows with PowerShell 3 installed, it's possible to install with one simple PowerShell command. Start up Powershell and paste this command::

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python -
```

You must start the Powershell with Administrative privileges or you may choose to install a user-local installation::

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | python --user
```

If you have Python 3.3 or later, you can use the `py` command to install to different Python versions. For example, to install to Python 3.3 if you have Python 2.7 installed::

```powershell
> (Invoke-WebRequest https://bootstrap.pypa.io/ez_setup.py).Content | py -3 -
```

The recommended way to install setuptools on Windows is to download ez_setup.py and run it. The script will download the appropriate distribution file and install it for you.

Once installation is complete, you will find an `easy_install` program in your Python `Scripts` subdirectory. For simple invocation and best results, add this directory to your `PATH` environment variable, if it is not already present. If you did a user-local install, the `Scripts` subdirectory is `\$env:APPDATA\Python\Scripts`.

Windows (simplified)
====================

For Windows without PowerShell 3 or for installation without a command-line, download ez_setup.py using your preferred web browser or other technique and “run” that file.
Unix (wget)

Most Linux distributions come with wget.

Download `ez_setup.py` and run it using the target Python version. The script will download the appropriate version and install it for you:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python
```

Note that you may need to invoke the command with superuser privileges to install to the system Python:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | sudo python
```

Alternatively, Setuptools may be installed to a user-local path:

```bash
> wget https://bootstrap.pypa.io/ez_setup.py -O - | python - --user
```

Note that on some older systems (noted on Debian 6 and CentOS 5 installations), `wget` may refuse to download `ez_setup.py`, complaining that the certificate common name `*.c.ssl.fastly.net` does not match the host name `bootstrap.pypa.io`. In addition, the `ez_setup.py` script may then encounter similar problems using `wget` internally to download `setuptools-x.y.zip`, complaining that the certificate common name of `www.python.org` does not match the host name `pypi.python.org`. Those are known issues, related to a bug in the older versions of `wget` (see Issue 59 <https://bitbucket.org/pypa/pypi/issue/59#comment-5881915>). If you happen to encounter them, install Setuptools as follows:

```bash
> wget --no-check-certificate https://bootstrap.pypa.io/ez_setup.py
> python ez_setup.py --insecure
```

Unix including Mac OS X (curl)

If your system has curl installed, follow the `wget` instructions but replace `wget` with `curl` and `-O` with `-o`. For example:

```bash
> curl https://bootstrap.pypa.io/ez_setup.py -o - | python
```

Advanced Installation

For more advanced installation options, such as installing to custom locations or prefixes, download and extract the source
tarball from `Setuptools on PyPI <https://pypi.python.org/pypi/setuptools>`_ and run setup.py with any supported distutils and Setuptools options. For example::

    setuptools-x.x$ python setup.py install --prefix=/opt/setuptools

Use ``--help`` to get a full options list, but we recommend consulting the `EasyInstall manual`_ for detailed instructions, especially the section on custom installation locations`_.

.. _EasyInstall manual: https://pythonhosted.org/setuptools/EasyInstall
.. _the section on custom installation locations: https://pythonhosted.org/setuptools/EasyInstall#custom-installation-locations

Downloads
==========

All setuptools downloads can be found at `the project's home page in the Python Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: https://pypi.python.org/pypi/setuptools

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Bitbucket repo`_, and in-development versions of the `0.6 branch`_ are available as well.

.. _Bitbucket repo: https://bitbucket.org/pypa/setuptools/get/default.tar.gz#egg=setuptools-dev
.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

Uninstalling
============

On Windows, if Setuptools was installed using an `exe` or `msi` installer, simply use the uninstall feature of "Add/Remove Programs" in the Control Panel.

Otherwise, to uninstall Setuptools or Distribute, regardless of the Python version, delete all `setuptools*` and `distribute*` files and directories from your system's `site-packages` directory (and any other `sys.path` directories) FIRST.

If you are upgrading or otherwise plan to re-install Setuptools or Distribute, nothing further needs to be done. If you want to completely remove Setuptools, you may also want to remove the 'easy_install' and 'easy_install-x.x' scripts and associated executables installed to the Python scripts directory.

--------------------------------
Using Setuptools and EasyInstall

--------------------------------

Here are some of the available manuals, tutorials, and other resources for learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig mailing list`_. If you have written (or know of) any tutorials, documentation, plug-ins, or other resources for setuptools users, please let us know about them there, so this reference list can be updated. If you have working, *tested* patches to correct problems or add features, you may submit them to the `setuptools bug tracker`_.

.. _setuptools bug tracker: https://github.com/pypa/setuptools/issues
.. _The Internal Structure of Python Eggs: https://pythonhosted.org/setuptools/formats.html
.. _The pkg_resources API reference: https://pythonhosted.org/setuptools/pkg_resources.html
.. _The EasyInstall user's guide and reference manual: https://pythonhosted.org/setuptools/easy_install.html
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

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Credits
-------

* The original design for the ``.egg` format and the `pkg_resources` API was co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first version of `pkg_resources`, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of `easy_install`, and supplied the doctests for the command-line `exe` wrappers on Windows.

* Phillip J. Eby is the seminal author of setuptools, and first proposed the idea of an importable binary distribution format for
Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application. In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

* Tarek Ziad is the principal author of the Distribute fork, which re-invigorated the community on the project, encouraged renewed innovation, and addressed many defects.

* Since the merge with Distribute, Jason R. Coombs is the maintainer of setuptools. The project is maintained in coordination with the Python Packaging Authority (PyPA) and the larger Python community.

.. _files:
---------------
Code of Conduct
---------------

Everyone interacting in the setuptools project's codebases, issue trackers, chat rooms, and mailing lists is expected to follow the `PyPA Code of Conduct`_.


Keywords: CPAN PyPI distutils eggs package management
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: System :: Archiving :: Packaging
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Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/PKG-
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* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/markers.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/_compat.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/__about__.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/__init__.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0/pkg_resources/_vendor/packaging/requirements.py
* /opt/cola/permits/1136205591_1613708311.18/0/python-setuptools-20-7-0-orig-1-tar-gz/setuptools-20.7.0(pkg_resources/_vendor/packaging/version.py
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1.147 tar 1.31

1.147.1 Available under license:

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/EmptyContiguousSet.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractHasher.java
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jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/Count.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RegularImmutableTable.java

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  jar/com/google/common/collect/ImmutableMapEntrySet.java
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  jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/Table.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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  jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/util/concurrent/SerializingExecutor.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
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  jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collection/TreeBasedTable.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/HashBasedTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/base/Converter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/util/concurrent/ListenersFutureTask.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/primitives/Flops.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/ImmutableMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Platform.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/Tables.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/UnicodeEscaper.java

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Strings.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingExecutorService.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ListeningExecutorService.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
  jar/com/google/common/collect/FilteredKeyMultimap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AggregateFuture.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/escape/CharEscaper.java
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jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/CollectionFuture.java

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 */

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/Striped.java

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jar/com/google/common/collection/ConsumingQueueIterator.java
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jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/InterruptibleTask.java
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1.149 artemis-amqp-protocol 2.10.1

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1.152 ncs 4.4.3

1.153 diffutils 3.6

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jar/org/opensaml/soap/wsfed/WSFedConstants.java
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=================

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1.156 wildfly-discovery-client 1.2.0.Final

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jar/org/wildfly/discovery/ServiceURL.java
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* /opt/ws_local/PERMITS_SQL/1074946829_1596001684.41/0/wildfly-discovery-client-1-2-0-final-sources-jar/org/wildfly/discovery/service/ServiceRegistration.java
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* /opt/ws_local/PERMITS_SQL/1074946829_1596001684.41/0/wildfly-discovery-client-1-2-0-final-sources-jar/org/wildfly/discovery/service/NumericAttributeValue.java
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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(This file is under construction.)-*- text -*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]
Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m68[034]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't
intentionally leaving anyone out.

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1.162 antlr 2.7.7

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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

1.163 jboss-jacc-api-1-5-spec 2.0.0.Final
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- tests/iojs/test-http-parser-durability.js


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- tests/fixtures/*
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- tests/testpy/*
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VendorName: Digital Bazaar, Inc.
VendorUrl: https://github.com/digitalbazaar/forge

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xmlDOM@0.1.31
URL: git://github.com/xmldom/xmlDOM.git
VendorName: jindw
VendorUrl: https://github.com/xmldom/xmlDOM

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URL: https://github.com/nodeca/pako.git
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URL: git://git.coolaj86.com/coolaj86/dom-storage.js.git
VendorName: AJ O'Neal
VendorUrl: https://git.coolaj86.com/coolaj86/dom-storage.js

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  URL: https://github.com/Stuk/jszip.git
  VendorName: Stuart Knightley

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tslib@1.13.0
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  VendorUrl: https://www.typescriptlang.org/

Apache-2.0

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URL: https://github.com/mikeal/caseless
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  VendorName: Francesco Cioria
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array-equal@1.0.0
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async-kit@0.4.0
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VendorUrl: http://thlorenz.com
depmerge@2.2.1
URL: git://github.com/KyleAMathews/deepmerge.git
VendorName: Nick Fisher
VendorUrl: https://github.com/KyleAMathews/deepmerge
depmerge@3.3.0
URL: git://github.com/TehShrike/deepmerge.git
VendorName: Jordan Harband
delayed-stream@1.0.0
URL: git://github.com/felixge/node-delayed-stream.git
VendorName: Felix Geisendrfer
VendorUrl: https://github.com/felixge/node-delayed-stream
detab@2.0.3
URL: https://github.com/wooorm/detab.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
discontinuous-range@1.0.0
URL: https://github.com/dtudury/discontinuous-range.git
VendorName: David Tudury
VendorUrl: https://github.com/dtudury/discontinuous-range
dnd-core@9.5.1
URL: https://github.com/react-dnd/react-dnd.git
ecc-jsbn@0.1.2
URL: https://github.com/quartzjer/ecc-jsbn.git
VendorName: Jeremie Miller
VendorUrl: https://github.com/quartzjer/ecc-jsbn
emoji-regex@8.0.0
URL: https://github.com/mathiasbynens/emoji-regex.git
VendorName: Mathias Bynens
VendorUrl: https://mths.be/emoji-regex
encoding@0.1.13
URL: https://github.com/andris9/encoding.git
VendorName: Andris Reinman
error-ex@1.3.2
URL: https://github.com/qix-/node-error-ex.git
es-abstract@1.17.6
URL: git://github.com/ljharb/es-abstract.git
VendorName: Jordan Harband
VendorUrl: http://ljharb.codes
es-abstract@1.18.0-next.0
URL: git://github.com/ljharb/es-abstract.git
VendorName: Jordan Harband
VendorUrl: http://ljharb.codes
es-to-primitive@1.2.1
URL: git://github.com/ljharb/es-to-primitive.git
VendorName: Jordan Harband
escape-string-regexp@1.0.5
URL: https://github.com/sindresorhus/escape-string-regexp.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
event-target-shim@5.0.1
URL: https://github.com/mysticatea/event-target-shim.git
VendorName: Toru Nagashima
VendorUrl: https://github.com/mysticatea/event-target-shim
extend@3.0.2
URL: https://github.com/justmoon/node-extend.git
VendorName: Stefan Thomas
VendorUrl: http://www.justmoon.net
extract-files@9.0.0
URL: https://github.com/jaydenseric/extract-files.git
VendorName: Jayden Seric
VendorUrl: https://github.com/jaydenseric/extract-files#readme
extsprintf@1.3.0
URL: git://github.com/davepacheco/node-extsprintf.git
extsprintf@1.4.0
URL: git://github.com/davepacheco/node-extsprintf.git
faker@4.1.0
URL: http://github.com/Marak/Faker.js.git
fast-deep-equal@3.1.3
URL: git+https://github.com/epoberezkin/fast-deep-equal.git
VendorName: Evgeny Poberezkin
VendorUrl: https://github.com/epoberezkin/fast-deep-equal#readme
fast-json-stable-stringify@2.1.0
URL: git://github.com/epoberezkin/fast-json-stable-stringify.git
VendorName: James Halliday
VendorUrl: https://github.com/epoberezkin/fast-json-stable-stringify
fast-levenshtein@2.0.6
URL: https://github.com/hiddentao/fast-levenshtein.git
VendorName: Ramesh Nair
VendorUrl: http://www.hiddentao.com/
file-saver@1.3.8
URL: git+https://github.com/eligrey/FileSaver.js.git
VendorName: Eli Grey
VendorUrl: https://github.com/eligrey/FileSaver.js#readme
find-root@1.1.0
URL: git@github.com:js-n/find-root.git
VendorName: jsdnxx
find-up@4.1.0
URL: https://github.com/sindresorhus/find-up.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
form-data@2.3.3
URL: git://github.com/form-data/form-data.git
VendorName: Felix Geisendrfer
VendorUrl: http://debuggable.com/

function-bind@1.1.1
URL: git://github.com/Raynos/function-bind.git
VendorName: Raynos
VendorUrl: https://github.com/Raynos/function-bind

fuzzaldrin@2.1.0
URL: https://github.com/atom/fuzzaldrin.git
VendorUrl: http://atom.github.io/fuzzaldrin

gensync@1.0.0-beta.1
VendorName: Logan Smyth

getpass@0.1.7
URL: https://github.com/arekinath/node-getpass.git
VendorName: Alex Wilson

globals@11.12.0
URL: https://github.com/sindresorhus/globals.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

google-p12-pem@3.0.3
URL: https://github.com/google/google-p12-pem
VendorName: Ryan Seys

graphql-tag@2.11.0
URL: git+https://github.com/apollographql/graphql-tag.git
VendorUrl: https://github.com/apollographql/graphql-tag#readme

graphql@15.3.0
URL: https://github.com/graphql/graphql-js.git
VendorUrl: https://github.com/graphql/graphql-js

gtoken@5.0.3
URL: https://github.com/google/node-gtoken.git
VendorName: Google, LLC

gud@1.0.0
URL: https://github.com/jamiebuilds/global-unique-id
VendorName: Jamie Kyle

har-validator@5.1.5
URL: https://github.com/ahmadnassri/node-har-validator.git
VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/node-har-validator

has-flag@3.0.0
URL: https://github.com/sindresorhus/has-flag.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

has-symbols@1.0.1
URL: git://github.com/ljharb/has-symbols.git
VendorName: Jordan Harband
VendorUrl: http://ljharb.codes

has@1.0.3
URL: git://github.com/tarruda/has.git
VendorName: Thiago de Arruda
VendorUrl: https://github.com/tarruda/has
hast-to-hyperscript@9.0.0
  URL: https://github.com/syntax-tree/hast-to-hyperscript.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
hast-util-from-parse5@6.0.0
  URL: https://github.com/syntax-tree/hast-util-from-parse5.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
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  URL: https://github.com/syntax-tree/hast-util-parse-selector.git
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VendorUrl: https://wooorm.com
hast-util-raw@6.0.1
  URL: https://github.com/syntax-tree/hast-util-raw.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
hast-util-to-parse5@6.0.0
  URL: https://github.com/syntax-tree/hast-util-to-parse5.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
hastscript@5.1.2
  URL: https://github.com/syntax-tree/hastscript.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
html-void-elements@1.0.5
  URL: https://github.com/wooorm/html-void-elements.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
http-parser-js@0.5.2
  URL: git://github.com/creationix/http-parser-js.git
VendorName: Tim Caswell
VendorUrl: https://github.com/creationix
http-signature@1.2.0
  URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/
https-proxy-agent@5.0.0
  URL: git://github.com/TooTallNate/node-https-proxy-agent.git
VendorName: Nathan Rajlich
VendorUrl: http://n8.io/
iconv-lite@0.4.24
  URL: git://github.com/ashtuchkin/iconv-lite.git
VendorName: Alexander Shtuchkin
VendorUrl: https://github.com/ashtuchkin/iconv-lite
iconv-lite@0.6.2
  URL: git://github.com/ashtuchkin/iconv-lite.git
VendorName: Alexander Shtuchkin
VendorUrl: https://github.com/ashtuchkin/iconv-lite
immediate@3.0.6
URL: git://github.com/calvinmetcalf/immediate.git
import-fresh@3.2.1
URL: https://github.com/sindresorhus/import-fresh.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
inline-style-parser@0.1.1
URL: https://github.com/remarkablemark/inline-style-parser
invariant@2.2.4
URL: https://github.com/zertosh/invariant
VendorName: Andres Suarez
is-alphabetical@1.0.4
URL: https://github.com/wooorm/is-alphabetical.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
is-alphanumeric@1.0.4
URL: https://github.com/wooorm/is-alphanumeric.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
is-arguments@1.0.4
URL: git://github.com/ljharb/is-arguments.git
VendorName: Jordan Harband
VendorUrl: https://github.com/ljharb/is-arguments
is-arrayish@0.2.1
URL: https://github.com/qix-/node-is-arrayish.git
VendorName: Qix
VendorUrl: http://github.com/qix-
is-buffer@2.0.4
URL: git://github.com/feross/is-buffer.git
VendorName: Feross Aboukhadijeh
VendorUrl: https://feross.org
is-callable@1.2.1
URL: git://github.com/ljharb/is-callable.git
VendorName: Jordan Harband
VendorUrl: http://ljharb.codes
is-date-object@1.0.2
URL: git://github.com/ljharb/is-date-object.git
VendorName: Jordan Harband
is-decimal@1.0.4
URL: https://github.com/wooorm/is-decimal.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
is-fullwidth-code-point@3.0.0
URL: https://github.com/sindresorhus/is-fullwidth-code-point.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-hexadecimal@1.0.4
URL: https://github.com/wooorm/is-hexadecimal.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
is-negative-zero@2.0.0
URL: git://github.com/ljharb/is-negative-zero.git
VendorName: Jordan Harband
VendorUrl: https://github.com/ljharb/is-negative-zero
is-plain-obj@2.1.0
URL: https://github.com/sindresorhus/is-plain-obj.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-regex@1.1.1
URL: git://github.com/ljharb/is-regex.git
VendorName: Jordan Harband
VendorUrl: https://github.com/ljharb/is-regex
is-stream@1.1.0
URL: https://github.com/sindresorhus/is-stream.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-stream@2.0.0
URL: https://github.com/sindresorhus/is-stream.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-symbol@1.0.3
URL: git://github.com/inspect-js/is-symbol.git
VendorName: Jordan Harband
is-typedarray@1.0.0
URL: git://github.com/hughsk/is-typedarray.git
VendorName: Hugh Kennedy
VendorUrl: https://github.com/hughsk/is-typedarray
is-what@3.11.2
URL: git+https://github.com/mesqueeb/is-what.git
VendorName: Luca Ban - Mesqueeb
VendorUrl: https://github.com/mesqueeb/is-what#readme
is-whitespace-character@1.0.4
URL: https://github.com/wooorm/is-whitespace-character.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
is-word-character@1.0.4
URL: https://github.com/wooorm/is-word-character.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
isarray@1.0.0
URL: git://github.com/juliangruber/isarray.git
VendorName: Julian Gruber
VendorUrl: https://github.com/juliangruber/isarray
isomorphic-fetch@2.2.1
VendorName: Brian J Brennan
keyboard-key@1.1.0
URL: git+ssh://github.com/levithomason/keyboard-key.git
VendorName: Levi Thomason
levn@0.3.0
URL: git://github.com/gkz/levn.git
VendorName: George Zahariev
VendorUrl: https://github.com/gkz/levn
lie@3.1.1
URL: https://github.com/calvinmetcalf/lie.git
lie@3.3.0
URL: https://github.com/calvinmetcalf/lie.git
tables-and-columns@1.1.6
URL: https://github.com/eventualbuddha/lines-and-columns.git
VendorName: Brian Donovan
VendorUrl: https://github.com/eventualbuddha/lines-and-columns#readme
locate-path@5.0.0
URL: https://github.com/sindresorhus/locate-path.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
lodash-es@4.17.15
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/custom-builds
lodash.camelcase@4.3.0
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash.uniq@4.5.0
URL: https://github.com/lodash/lodash.git
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lodash@4.17.15
URL: https://github.com/lodash/lodash.git
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VendorUrl: https://lodash.com/
lodash@4.17.20
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
loose-envify@1.4.0
URL: git://github.com/zertosh/loose-envify.git
VendorName: Andres Suarez
VendorUrl: https://github.com/zertosh/loose-envify
magic-string@0.25.7
URL: https://github.com/rich-harris/magic-string
VendorName: Rich Harris
markdown-escapes@1.0.4
URL: https://github.com/wooorm/markdown-escapes.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
mdast-squeeze-paragraphs@4.0.0
URL: https://github.com/syntax-tree/mdast-squeeze-paragraphs.git
VendorName: Eugene Sharygin
mdast-util-definitions@3.0.1
URL: https://github.com/syntax-tree/mdast-util-definitions.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
mdast-util-to-hast@9.1.1
URL: https://github.com/syntax-tree/mdast-util-to-hast.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
mdurl@1.0.1
URL: https://github.com/markdown-it/mdurl.git
memoize-one@5.1.1
URL: https://github.com/alexreardon/memoize-one.git
VendorName: Alex Reardon
merge-anything@2.4.4
URL: git+https://github.com/mesqueeb/merge-anything.git
VendorName: Luca Ban - Mesqueeb
VendorUrl: https://github.com/mesqueeb/merge-anything#readme
mime-db@1.44.0
URL: https://github.com/jshttp/mime-db.git
mime-types@2.1.27
URL: https://github.com/jshttp/mime-types.git
mime@2.4.6
URL: https://github.com/broofa/mime
VendorName: Robert Kieffer
VendorUrl: http://github.com/broofa
minimist@1.2.5
URL: git://github.com/substack/minimist.git
VendorName: James Halliday
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monaco-editor@0.20.0
URL: https://github.com/Microsoft/monaco-editor
VendorName: Microsoft Corporation
ms@2.1.2
URL: https://github.com/zeit/ms.git
nearley@2.18.0
URL: https://github.com/hardmath123/nearley.git
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nearley@2.19.6
URL: https://github.com/hardmath123/nearley.git
VendorName: Hardmath123
node-fetch@1.7.3
URL: https://github.com/bitinn/node-fetch.git
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node-fetch@2.6.1
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nwmatcher@1.4.4
URL: git://github.com/dperini/nwmatcher.git
VendorName: Diego Perini
VendorUrl: http://javascript.nwbox.com/NWMatcher/
object-inspect@1.8.0
URL: git://github.com/inspect-js/object-inspect.git
VendorName: James Halliday
VendorUrl: https://github.com/inspect-js/object-inspect
object-is@1.1.2
URL: git://github.com/es-shims/object-is.git
VendorName: Jordan Harband
VendorUrl: https://github.com/es-shims/object-is
object-keys@1.1.1
URL: git://github.com/ljharb/object-keys.git
VendorName: Jordan Harband
VendorUrl: http://ljharb.codes
object.assign@4.1.1
URL: git://github.com/ljharb/object.assign.git
VendorName: Jordan Harband
VendorUrl: https://github.com/ljharb/object.assign
optimism@0.12.1
URL: git+https://github.com/benjamn/optimism.git
VendorName: Ben Newman
VendorUrl: https://github.com/benjamn/optimism#readme
optionator@0.8.3
URL: git://github.com/gkz/optionator.git
VendorName: George Zahariev
VendorUrl: https://github.com/gkz/optionator
p-limit@2.3.0
URL: https://github.com/sindresorhus/p-limit.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
p-locate@4.1.0
URL: https://github.com/sindresorhus/p-locate.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
p-try@2.2.0
URL: https://github.com/sindresorhus/p-try.git
VendorName: Sindre Sorhus
URL: https://github.com/reduxjs/react-redux.git
VendorName: Dan Abramov
VendorUrl: https://github.com/reduxjs/react-redux
react-spring@8.0.27
URL: git+https://github.com/drcmda/react-spring.git
VendorName: Paul Henschel
VendorUrl: https://github.com/drcmda/react-spring#readme
react-suber@1.0.4
URL: https://github.com/oskarhane/react-suber.git
VendorName: Oskar Hane
VendorUrl: http://oskarhane.com/
react-svg-inline@2.1.1
URL: https://github.com/MoOx/react-svg-inline.git
VendorName: Maxime Thirouin
VendorUrl: https://github.com/MoOx/react-svg-inline.git
react-table@7.0.4
URL: git+https://github.com/tannerlinsley/react-table.git
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react-timeago@4.4.0
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VendorUrl: https://github.com/nmn/react-timeago
react@16.13.1
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VendorUrl: https://reactjs.org/
readable-stream@2.3.7
URL: git://github.com/nodejs/readable-stream
redux-observable@0.16.0
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redux@4.0.5
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regenerate-unicode-properties@8.2.0
URL: https://github.com/mathiasbynens/regenerate-unicode-properties.git
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regenerate@1.4.1
URL: https://github.com/mathiasbynens/regenerate.git
VendorName: Mathias Bynens
VendorUrl: https://mths.be/regenerate
regenerator-runtime@0.13.7
URL: https://github.com/facebook/regenerator/tree/master/packages/regenerator-runtime
VendorName: Ben Newman
regexp.prototype.flags@1.3.0
URL: git://github.com/es-shims/RegExp.prototype.flags.git
VendorName: Jordan Harband
regexpu-core@4.7.0
URL: https://github.com/mathiasbynens/regexpu-core.git
VendorName: Mathias Bynens
VendorUrl: https://mths.be/regexpu
regjsgen@0.5.2
URL: https://github.com/bnjmnt4n/regjsgen.git
VendorName: Benjamin Tan
VendorUrl: https://github.com/bnjmnt4n/regjsgen
remark-footnotes@2.0.0
URL: https://github.com/remarkjs/remark-footnotes.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
remark-mdx@1.6.18
URL: https://github.com/mdx-js/mdx.git
VendorName: Titus Wormer
VendorUrl: https://mdxjs.com/
remark-parse@8.0.3
URL: https://github.com/remarkjs/remark/tree/main/packages/remark-parse
VendorName: Titus Wormer
VendorUrl: https://remark.js.org/
remark-squeeze-paragraphs@4.0.0
URL: https://github.com/remarkjs/remark-squeeze-paragraphs.git
VendorName: Eugene Sharygin
repeat-string@1.6.1
URL: https://github.com/jonschlinkert/repeat-string.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/repeat-string
replace-ext@1.0.0
URL: https://github.com/gulpjs/replace-ext.git
VendorName: Gulp Team
VendorUrl: http://gulpjs.com/
require-directory@2.1.1
URL: git://github.com/troygoode/node-require-directory.git
VendorName: Troy Goode
VendorUrl: https://github.com/troygoode/node-require-directory/
requires-port@1.0.0
URL: https://github.com/unshiftio/requires-port
VendorName: Arnout Kazemier
VendorUrl: https://github.com/unshiftio/requires-port
resolve-from@4.0.0
URL: https://github.com/sindresorhus/resolve-from.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
resolve@1.17.0
URL: git://github.com/browserify/resolve.git
VendorName: James Halliday
VendorUrl: http://substack.net
state-toggle@1.0.3
  URL: https://github.com/wooorm/state-toggle.git
  VendorName: Titus Wormer
  VendorUrl: https://wooorm.com

string_decoder@1.1.1
  URL: git://github.com/nodejs/string_decoder.git
  VendorUrl: https://github.com/nodejs/string_decoder

string-width@4.2.0
  URL: https://github.com/sindresorhus/string-width.git
  VendorName: Sindre Sorhus
  VendorUrl: sindresorhus.com

string.prototype.trimend@1.0.1
  URL: git://github.com/es-shims/String.prototype.trimEnd.git
  VendorName: Jordan Harband

string.prototype.trimstart@1.0.1
  URL: git://github.com/es-shims/String.prototype.trimStart.git
  VendorName: Jordan Harband

strip-ansi@6.0.0
  URL: https://github.com/chalk/strip-ansi.git
  VendorName: Sindre Sorhus
  VendorUrl: sindresorhus.com

style-to-object@0.3.0
  URL: https://github.com/remarkablemark/style-to-object
  VendorName: Mark

styled-components@4.4.1
  URL: git+https://github.com/styled-components/styled-components.git
  VendorName: Glen Maddern
  VendorUrl: https://styled-components.com/

stylis-rule-sheet@0.0.10
  URL: https://github.com/thysultan/stylis.js
  VendorName: Sultan Tarimo
  VendorUrl: https://github.com/thysultan/stylis.js

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  VendorName: Sultan Tarimo
  VendorUrl: https://github.com/thysultan/stylis.js

suber@5.0.1
  URL: https://github.com/oskarhane/suber.git
  VendorName: Oskar Hane
  VendorUrl: http://oskarhane.com/

supports-color@5.5.0
  URL: https://github.com/chalk/supports-color.git
  VendorName: Sindre Sorhus
  VendorUrl: sindresorhus.com

symbol-observable@1.0.1
  URL: https://github.com/blesh/symbol-observable.git
  VendorName: Ben Lesh
  symbol-observable@1.2.0
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VendorName: Ben Lesh
symbol-observable@2.0.1
URL: https://github.com/blesh/symbol-observable.git
VendorName: Ben Lesh
symbol-tree@3.2.4
URL: https://github.com/jsdom/js-symbol-tree.git
VendorName: Joris van der Wel
VendorUrl: https://github.com/jsdom/js-symbol-tree#symbol-tree
to-fast-properties@2.0.0
URL: https://github.com/sindresorhus/to-fast-properties.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
tr46@0.0.3
URL: git+https://github.com/Sebmaster/tr46.js.git
VendorName: Sebastian Mayr
VendorUrl: https://github.com/Sebmaster/tr46.js#readme
trim-trailing-lines@1.1.3
URL: https://github.com/wooorm/trim-trailing-lines.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
trim@0.0.1
VendorName: TJ Holowaychuk
trough@1.0.5
URL: https://github.com/wooorm/trough.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
ts-invariant@0.4.4
URL: git+https://github.com/apollographql/invariant-packages.git
VendorName: Ben Newman
VendorUrl: https://github.com/apollographql/invariant-packages
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URL: git://github.com/gkz/type-check.git
VendorName: George Zahariev
VendorUrl: https://github.com/gkz/type-check
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VendorName: lttb
unherit@1.1.3
URL: https://github.com/wooorm/unherit.git
VendorName: Titus Wormer
VendorUrl: https://wooorm.com
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URL: git://github.com/TooTallNate/util-deprecate.git  
VendorName: Nathan Rajlich  
VendorUrl: https://github.com/TooTallNate/util-deprecate
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VendorUrl: https://wooorm.com
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whatwg-url@2.0.1  
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VendorName: Sebastian Mayr
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URL: https://github.com/jonschlinkert/word-wrap.git  
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VendorUrl: https://github.com/jonschlinkert/word-wrap
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URL: https://github.com/chalk/wrap-ansi.git  
VendorName: Sindre Sorhus  
VendorUrl: sindresorhus.com
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VendorName: Dan DeFelippi
VendorUrl: http://driverdan.com
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text-encoding-utf-8@1.0.2
URL: https://github.com/arv/text-encoding-utf-8.git
VendorName: Erik Arvidsson
VendorUrl: https://github.com/arv/text-encoding-utf-8
WTFPL
xml-name-validator@2.0.1
URL: https://github.com/jsdom/xml-name-validator.git
VendorName: Domenic Denicola
VendorUrl: https://domenic.me/

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package org.elasticsearch.client.license;
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import java.io.IOException;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public class StartTrialResponse {

    private static final ConstructingObjectParser<StartTrialResponse, Void> PARSER = new ConstructingObjectParser<"start_trial_response",
true,
(Object[] arguments, Void aVoid) -> {
    final boolean acknowledged = (boolean) arguments[0];
    final boolean trialWasStarted = (boolean) arguments[1];
    final String licenseType = (String) arguments[2];
    final String errorMessage = (String) arguments[3];

    @SuppressWarnings("unchecked")
    final Tuple<String, Map<String, String[]>> acknowledgeDetails = (Tuple<String, Map<String, String[]>>)
arguments[4];
    final String acknowledgeHeader;
    final Map<String, String[]> acknowledgeMessages;

    if (acknowledgeDetails != null) {
        acknowledgeHeader = acknowledgeDetails.v1();
        acknowledgeMessages = acknowledgeDetails.v2();
    } else {
        acknowledgeHeader = null;
        acknowledgeMessages = null;
    }

    return new StartTrialResponse(acknowledged, trialWasStarted, licenseType, errorMessage,
acknowledgeHeader,
    acknowledgeMessages);
    }
});
static {
    PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
    PARSER.declareBoolean(constructorArg(), new ParseField("trial_was_started"));
    PARSER.declareString(optionalConstructorArg(), new ParseField("type"));
    PARSER.declareString(optionalConstructorArg(), new ParseField("error_message"));
    // todo consolidate this parsing with the parsing in PutLicenseResponse
    PARSER.declareObject(optionalConstructorArg(), (parser, aVoid) -> {
        final Map<String, String[]> acknowledgeMessages = new HashMap<>();
        String message = null;

        final Map<String, Object> parsedMap = parser.map();
        for (Map.Entry<String, Object> entry : parsedMap.entrySet()) {
            if (entry.getKey().equals("message")) {
                if (entry.getValue() instanceof String) {
                    message = (String) entry.getValue();
                } else {
                    throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement header type");
                }
            } else {
                if (entry.getValue() instanceof List) {
                    final List<String> messageStrings = new ArrayList<>();
                    @SuppressWarnings("unchecked")
                    final List<Object> messageObjects = (List<Object>) entry.getValue();
                    for (Object messageObject : messageObjects) {
                        if (messageObject instanceof String) {
                            messageStrings.add((String) messageObject);
                        } else {
                            throw new XContentParseException(parser.getTokenLocation(), "expected text in acknowledgement message");
                        }
                    }
                    acknowledgeMessages.put(entry.getKey(), messageStrings.toArray(new String[messageStrings.size()]));
                } else {
                    throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement message type");
                }
            }
        }

        if (message == null) {
            throw new XContentParseException(parser.getTokenLocation(), "expected acknowledgement header");
        }

        return new Tuple<>(message, acknowledgeMessages);
    });
}
private final boolean acknowledged;
private final boolean trialWasStarted;
private final String licenseType;
private final String errorMessage;
private final String acknowledgeHeader;
private final Map<String, String[]> acknowledgeMessages;

public StartTrialResponse(boolean acknowledged,
boolean trialWasStarted,
String licenseType,
String errorMessage,
String acknowledgeHeader,
Map<String, String[]> acknowledgeMessages) {
 this.acknowledged = acknowledged;
 this.trialWasStarted = trialWasStarted;
 this.licenseType = licenseType;
 this.errorMessage = errorMessage;
 this.acknowledgeHeader = acknowledgeHeader;
 this.acknowledgeMessages = acknowledgeMessages;
}

/**
 * Returns true if the request that corresponds to this response acknowledged license changes that would occur as a
 * result of starting
 * a trial license
 */
public boolean isAcknowledged() {
 return acknowledged;
}

/**
 * Returns true if a trial license was started as a result of the request corresponding to this response. Returns false
 * if the cluster
 * did not start a trial, or a trial had already been started before the corresponding request was made
 */
public boolean isTrialWasStarted() {
 return trialWasStarted;
}

/**
 * Returns true if the request that corresponds to this response acknowledged license changes that would occur as a
 * result of starting
 * a trial license
 */
public static StartTrialResponse fromXContent(XContentParser parser) throws IOException {
 return PARSER.apply(parser, null);
}

};
new ParseField("acknowledge");
};
public String getLicenseType() {
    return licenseType;
}

public String getErrorMessage() {
    return errorMessage;
}

public String getAcknowledgeHeader() {
    return acknowledgeHeader;
}

public Map<String, String[]> getAcknowledgeMessages() {
    return acknowledgeMessages;
}
package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.ObjectParser;
import org.elasticsearch.common.xcontent.XContentParser;

import java.util.Objects;

import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;

/**
 * Response class for license get trial status API
 */
public class GetTrialStatusResponse {

    private static final ParseField ELIGIBLE_TO_START_TRIAL = new ParseField("eligible_to_start_trial");

    private static final ConstructingObjectParser<GetTrialStatusResponse, Void> PARSER = new
ConstructingObjectParser<>(
    "get_trial_status_response", true, a -> new GetTrialStatusResponse((boolean) a[0]);
    static {
        PARSER.declareField(constructorArg(), (parser, context) -> parser.booleanValue(),
            ELIGIBLE_TO_START_TRIAL,
            ObjectParser.ValueType.BOOLEAN);
    }

    private final boolean eligibleToStartTrial;

    GetTrialStatusResponse(boolean eligibleToStartTrial) {
        this.eligibleToStartTrial = eligibleToStartTrial;
    }
}
/**
 * Returns whether the license is eligible to start trial or not
 */
public boolean isEligibleToStartTrial() {
    return eligibleToStartTrial;
}

public static GetTrialStatusResponse fromXContent(XContentParser parser) {
    return PARSER.apply(parser, null);
}

@Override
public boolean equals(Object o) {
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }
    GetTrialStatusResponse that = (GetTrialStatusResponse) o;
    return eligibleToStartTrial == that.eligibleToStartTrial;
}

@Override
public int hashCode() {
    return Objects.hash(eligibleToStartTrial);
}

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 */
package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.ObjectParser;
import org.elasticsearch.common.xcontent.XContentParser;
import java.util.Objects;

import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;

/**
 * Response class for license get basic status API
 */
public class GetBasicStatusResponse {

    private static final ParseField ELIGIBLE_TO_START_BASIC = new ParseField("eligible_to_start_basic");

    private static final ConstructingObjectParser<GetBasicStatusResponse, Void> PARSER = new
    ConstructingObjectParser<
        "get_basic_status_response", true, a -> new GetBasicStatusResponse((boolean) a[0]);

    static {
        PARSER.declareField(constructorArg(), (parser, context) -> parser.booleanValue(),
            ELIGIBLE_TO_START_BASIC,
            ObjectParser.ValueType.BOOLEAN);
    }

    private final boolean eligibleToStartBasic;

    GetBasicStatusResponse(boolean eligibleToStartBasic) {
        this.eligibleToStartBasic = eligibleToStartBasic;
    }

    /**
     * Returns whether the license is eligible to start basic or not
     */
    public boolean isEligibleToStartBasic() {
        return eligibleToStartBasic;
    }

    public static GetBasicStatusResponse fromXContent(XContentParser parser) {
        return PARSER.apply(parser, null);
    }

    @Override
    public boolean equals(Object o) {
        return false; // Placeholder, actual implementation not shown
    }

    public boolean equals(Object o) {
        return false; // Placeholder, actual implementation not shown
    }

}
if (this == o) {
    return true;
} 
if (o == null || getClass() != o.getClass()) {
    return false;
} 
GetBasicStatusResponse that = (GetBasicStatusResponse) o;
return eligibleToStartBasic == that.eligibleToStartBasic;
}

@Override 
public int hashCode() {
    return Objects.hash(eligibleToStartBasic);
} 
} 

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*/

package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.client.common.ProtocolUtils;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;

import java.util.Map;
import java.util.Objects;

import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public final class PutLicenseResponse {

    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new
    ConstructingObjectParser<>
    ("put_license_response", true, (a, v) -> {
        boolean acknowledged = (Boolean) a[0];
        LicensesStatus licensesStatus = LicensesStatus.fromString((String) a[1]);
        @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
        Map<String, String[]>>) a[2];
        if (acknowledgements == null) {
            return new PutLicenseResponse(acknowledged, licensesStatus);
        } else {
            return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements.v1(),
            acknowledgements.v2());
        }
    });

    static {
        PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
        PARSER.declareString(constructorArg(), new ParseField("license_status"));
        PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
            Map<String, String[]> acknowledgeMessages = new HashMap<>();
            String message = null;
            XContentParser.Token token;
            String currentFieldName = null;
            while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
                if (token == XContentParser.Token.FIELD_NAME) {
                    currentFieldName = parser.currentName();
                } else {
                    if (currentFieldName == null) {
                        throw new XContentParseException(parser.getTokenLocation(), "expected message header or
                        acknowledgement");
                    }
                    if ("message".equals(currentFieldName)) {
                        if (token != XContentParser.Token.VALUE_STRING) {
                            throw new XContentParseException(parser.getTokenLocation(), "unexpected message header
                            type");
                        }
                        message = parser.text();
                    } else {
                        if (token != XContentParser.Token.START_ARRAY) {
                            throw new XContentParseException(parser.getTokenLocation(), "expected message header or
                            acknowledgement");
                        }
                    }
                }
            }
        });
    }
}
throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement type");
}
List<String> acknowledgeMessagesList = new ArrayList<>();
while ((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
    if (token != XContentParser.Token.VALUE_STRING) {
        throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement text");
    }
    acknowledgeMessagesList.add(parser.text());
}
acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
}
return new Tuple<>(message, acknowledgeMessages);
},
new ParseField("acknowledge"));
}

private boolean acknowledged;
private LicensesStatus status;
private Map<String, String[]> acknowledgeMessages;
private String acknowledgeHeader;

public PutLicenseResponse() {
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status) {
    this(acknowledged, status, null, Collections.<String, String[]>emptyMap());
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status, String acknowledgeHeader, Map<String, String[]> acknowledgeMessages) {
    this.acknowledged = acknowledged;
    this.status = status;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

public boolean isAcknowledged() {
    return acknowledged;
}

public LicensesStatus status() {
    return status;
}
public Map<String, String[]> acknowledgeMessages() {
    return acknowledgeMessages;
}

public String acknowledgeHeader() {
    return acknowledgeHeader;
}

public static PutLicenseResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false;
    if (!super.equals(o)) return false;
    PutLicenseResponse that = (PutLicenseResponse) o;

    return status == that.status &&
            ProtocolUtils.equals(acknowledgeMessages, that.acknowledgeMessages) &&
            Objects.equals(acknowledgeHeader, that.acknowledgeHeader);
}

@Override
public int hashCode() {
    return Objects.hash(super.hashCode(), status, ProtocolUtils.hashCode(acknowledgeMessages),
                acknowledgeHeader);
}

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 */
package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;
import static org.elasticsearch.common.xcontent.XContentParserUtils.ensureExpectedToken;

public class StartBasicResponse {

    private static final ConstructingObjectParser<StartBasicResponse, Void> PARSER = new 
    ConstructingObjectParser<
        "start_basic_response", true, (a, v) -> {
            boolean basicWasStarted = (Boolean) a[0];
            String errorMessage = (String) a[1];

            if (basicWasStarted) {
                return new StartBasicResponse(StartBasicResponse.Status.GENERATED_BASIC);
            }

            StartBasicResponse.Status status = StartBasicResponse.Status.fromErrorMessage(errorMessage);

            @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
            Map<String, String[]>>) a[2];

            return new StartBasicResponse(status, acknowledgements.v2(), acknowledgements.v1());
        });

    static {
        PARSER.declareBoolean(constructorArg(), new ParseField("basic_was_started"));
        PARSER.declareString(optionalConstructorArg(), new ParseField("error_message"));
        PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
            Map<String, String[]> acknowledgeMessages = new HashMap<>();
            String message = null;
            XContentParser.Token token;
            String currentFieldName = null;
            while (((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) != XContentParser.Token.END_OBJECT) {
                if (token == XContentParser.Token.FIELD_NAME) {
                    currentFieldName = parser.currentName();
                } else if (token == XContentParser.Token.VALUE_STRING) {
                    message = parser.text();
                } else if (token == XContentParser.Token.VALUE_TRUE) {
                    acknowledgeMessages.put(currentFieldName, new String[] {"true"});
                } else if (token == XContentParser.Token.VALUE_FALSE) {
                    acknowledgeMessages.put(currentFieldName, new String[] {"false"});
                } else if (token == XContentParser.Token.VALUE_NULL) {
                    acknowledgeMessages.put(currentFieldName, new String[] {"null"});
                }
            }

            return new StartBasicResponse(status, new HashMap<>(acknowledgeMessages));
        });
    }
currentFieldName = parser.currentName();
} else {
    if (currentFieldName == null) {
        throw new XContentParseException(parser.getTokenLocation(), "expected message header or
    acknowledgement");
    }
    if (new ParseField("message").getPreferredName().equals(currentFieldName)) {
        ensureExpectedToken(XContentParser.Token.VALUE_STRING, token, parser::getTokenLocation);
        message = parser.text();
    } else {
        if (token != XContentParser.Token.START_ARRAY) {
            throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
        type");
        }
        List<String> acknowledgeMessagesList = new ArrayList<>();
        while ((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
            ensureExpectedToken(XContentParser.Token.VALUE_STRING, token, parser::getTokenLocation);
            acknowledgeMessagesList.add(parser.text());
        }
        acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
    }
}
return new Tuple<>(message, acknowledgeMessages);
}, new ParseField("acknowledge");

private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

public enum Status {
    GENERATED_BASIC(true, null),
    ALREADY_USING_BASIC(false, "Operation failed: Current license is basic."),
    NEED_ACKNOWLEDGEMENT(false, "Operation failed: Needs acknowledgement.");

    private final boolean isBasicStarted;
    private final String errorMessage;

    Status(boolean isBasicStarted, String errorMessage) {
        this.isBasicStarted = isBasicStarted;
        this.errorMessage = errorMessage;
    }

    static StartBasicResponse.Status fromErrorMessage(final String errorMessage) {
        final StartBasicResponse.Status[] values = StartBasicResponse.Status.values();
        for (StartBasicResponse.Status status : values) {
if (Objects.equals(status.errorMessage, errorMessage)) {
    return status;
}
throw new IllegalArgumentException("No status for error message [" + errorMessage + "]");
}

private StartBasicResponse.Status status;

private StartBasicResponse(StartBasicResponse.Status status) {
    this(status, Collections.emptyMap(), null);
}
private StartBasicResponse(StartBasicResponse.Status status,
    Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public Status getStatus() {
    return status;
}

public boolean isAcknowledged() {
    return status != StartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;
}

public boolean isBasicStarted() {
    return status.isBasicStarted;
}

public String getErrorMessage() {
    return status.errorMessage;
}

public String getAcknowledgeMessage() {
    return acknowledgeMessage;
}

public Map<String, String[]> getAcknowledgeMessages() {
    return acknowledgeMessages;
}

public static StartBasicResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
}
package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class StartBasicRequest extends TimedRequest {
    private final boolean acknowledge;

    public StartBasicRequest() {
        this(false);
    }

    public StartBasicRequest(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }
}

import org.elasticsearch.client.TimedRequest;

public class StartBasicRequest extends TimedRequest {
    private final boolean acknowledge;

    public StartBasicRequest() {
        this(false);
    }

    public StartBasicRequest(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }
}
public class GetLicenseResponse {

    private String license;

    GetLicenseResponse() {
    }

    public GetLicenseResponse(String license) {
        this.license = license;
    }

    public String getLicenseDefinition() {
        return license;
    }
}

package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;
public class DeleteLicenseRequest extends TimedRequest {
}

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 */

package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class PutLicenseRequest extends TimedRequest {

    private String licenseDefinition;
    private boolean acknowledge = false;

    public PutLicenseRequest() {
    }

    public void setLicenseDefinition(String licenseDefinition) {
        this.licenseDefinition = licenseDefinition;
    }

    public String getLicenseDefinition() {
        return licenseDefinition;
    }

    public void setAcknowledge(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }
}
package org.elasticsearch.client.license;

import org.elasticsearch.client.Validatable;

public class GetLicenseRequest implements Validatable {
    protected boolean local = false;

    public GetLicenseRequest() {
    }

    public boolean isLocal() {
        return local;
    }

    public void setLocal(boolean local) {
        this.local = local;
    }
}

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 */

import org.elasticsearch.client.Validatable;

public class GetLicenseRequest implements Validatable {
    protected boolean local = false;

    public GetLicenseRequest() {
    }

    public boolean isLocal() {
        return local;
    }

    public void setLocal(boolean local) {
        this.local = local;
    }
}

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 */
package org.elasticsearch.client.license;

import java.util.Locale;

public enum LicensesStatus {
    VALID((byte) 0),
    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }

    public int id() {
        return id;
    }

    public static LicensesStatus fromId(int id) {
        if (id == 0) {
            return VALID;
        } else if (id == 1) {
            return INVALID;
        } else if (id == 2) {
            return EXPIRED;
        } else {
            throw new IllegalStateException("no valid LicensesStatus for id= " + id);
        }
    }
}

@Override
public String toString() {
    return this.name().toLowerCase(Locale.ROOT);
}

public static LicensesStatus fromString(String value) {

}
switch (value) {
    case "valid":
        return VALID;
    case "invalid":
        return INVALID;
    case "expired":
        return EXPIRED;
    default:
        throw new IllegalArgumentException("unknown licenses status [" + value + "]");
}
package org.elasticsearch.client.license;

/**
 * Status of an X-Pack license.
 */
public enum LicenseStatus {

    ACTIVE("active"),
    INVALID("invalid"),
    EXPIRED("expired");

    private final String label;

    LicenseStatus(String label) {
        this.label = label;
    }

    public String label() {
        return label;
    }

    public static LicenseStatus fromString(String value) {
        switch (value) {
            case "active":
                return ACTIVE;
            case "invalid":
                return INVALID;
            case "expired":
                return EXPIRED;
            default:
                throw new IllegalArgumentException("unknown license status [" + value + "]");
        }
    }
}

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*/

package org.elasticsearch.client.license;

import org.elasticsearch.client.Validatable;
import org.elasticsearch.common.Nullable;

public class StartTrialRequest implements Validatable {

    private final boolean acknowledge;
    private final String licenseType;

    public StartTrialRequest() {
        this(false);
    }

    public StartTrialRequest(boolean acknowledge) {
        this(acknowledge, null);
    }

    public StartTrialRequest(boolean acknowledge, @Nullable String licenseType) {
        this.acknowledge = acknowledge;
        this.licenseType = licenseType;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }

    public String getLicenseType() {
        return licenseType;
    }
}

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1.183 azure-mgmt-network 11.0.0
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-0.zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2017_09_01/operations/_network_security_groups_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-0.zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_01_01/operations/_vnet_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-0.zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_09_01/operations/_network_security_groups_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_12_01/operations/_p2s_vpn_gateways_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_07_01/__init__.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_05_01/operations/_express_route_service_providers_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_07_01/service_association_links_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_08_01/private_endpoints_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_06_01/network_interface_load_balancers_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_08_01/load_balancer_load_balancing_rules_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_08_01/available_delegations_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_04_01/application_security_groups_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_11_01/network_management_client_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_11_01/available_endpoint_services_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_11_01/network_profiles_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_11_01/express_route_circuit_peerings_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2018_11_01/packet_captures_operations.py
* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_09_01/express_route_service_providers_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2020_04_01/operations/_firewall_policy_rule_groups_operations.py
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* /opt/cola/permits/1155895627_1619081408.16/0/azure-mgmt-network-11-0-0-zip/azure-mgmt-network-11.0.0/azure/mgmt/network/v2019_04_01/operations/_virtual_network_peerings_operations.py
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No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: azure-mgmt-network
Version: 11.0.0
Summary: Microsoft Azure Network Management Client Library for Python
Home-page: https://github.com/Azure/azure-sdk-for-python
Author: Microsoft Corporation
Author-email: azpysdkhelp@microsoft.com
License: MIT License
Description: # Microsoft Azure SDK for Python

This is the Microsoft Azure Network Management Client Library.
This package has been tested with Python 2.7, 3.5, 3.6, 3.7 and 3.8.
For a more complete view of Azure libraries, see the [Github repo](https://github.com/Azure/azure-sdk-for-python)

# Usage

For code examples, see [Network Management](https://docs.microsoft.com/python/api/overview/azure/network)
on docs.microsoft.com.

# Provide Feedback
If you encounter any bugs or have suggestions, please file an issue in the [Issues](https://github.com/Azure/azure-sdk-for-python/issues) section of the project.

![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python%2Fazure-mgmt-network%2FREADME.png)

# Release History

## 11.0.0 (2020-06-19)

**Features**

- Model ConnectivityHop has a new parameter previous_hop_ids
- Model ConnectivityHop has a new parameter previous_links
- Model ConnectivityHop has a new parameter links
- Model HubIPAddresses has a new parameter public_ips
- Model FirewallPolicy has a new parameter rule_collection_groups
- Model FirewallPolicy has a new parameter dns_settings
- Model VirtualHub has a new parameter routing_state
- Model VirtualHub has a new parameter ip_configurations
- Model VirtualHub has a new parameter bgp_connections
- Model VirtualHub has a new parameter virtual_router_ips
- Model VirtualHub has a new parameter virtual_router_asn
- Model ApplicationGatewayFrontendIPConfiguration has a new parameter private_link_configuration
- Model ApplicationGateway has a new parameter private_endpoint_connections
- Model ApplicationGateway has a new parameter private_link_configurations
- Model P2SVpnGateway has a new parameter custom_dns_servers
- Model FirewallPolicyRule has a new parameter description
- Model NetworkVirtualAppliance has a new parameter virtual_appliance_sites
- Model NetworkVirtualAppliance has a new parameter boot Strap_configuration_blobs
- Model NetworkVirtualAppliance has a new parameter cloud_init_configuration
- Model NetworkVirtualAppliance has a new parameter cloud_init_configuration_blobs
- Model NetworkVirtualAppliance has a new parameter nva_sku
- Added operation VirtualHubsOperations.get_effective_virtual_hub_routes
- Added operation HubVirtualNetworkConnectionsOperations.delete
- Added operation HubVirtualNetworkConnectionsOperations.create_or_update
- Added operation group VirtualHubBgpConnectionsOperations
- Added operation group VirtualApplianceSkusOperations
- Added operation group VirtualHubIpConfigurationOperations
- Added operation group ApplicationGatewayPrivateLinkResourcesOperations
- Added operation group VirtualApplianceSitesOperations
- Added operation group ApplicationGatewayPrivateEndpointConnectionsOperations
- Added operation group FirewallPolicyRuleCollectionGroupsOperations
- Added operation group VirtualHubBgpConnectionOperations
**Breaking changes**

- Model HubIPAddresses no longer has parameter public_ip_addresses
- Model FirewallPolicy no longer has parameter rule_groups
- Model VirtualHub no longer has parameter virtual_network_connections
- Model FirewallPolicyRule no longer has parameter priority
- Model NetworkVirtualAppliance no longer has parameter cloud_init_configuration_blob
- Model NetworkVirtualAppliance no longer has parameter bootstrap_configuration_blob
- Model NetworkVirtualAppliance no longer has parameter sku

## 10.2.0 (2020-04-10)

**Features**

- Model VpnConnection has a new parameter routing_configuration
- Model NatRuleCondition has a new parameter terminate_tls
- Model HubVirtualNetworkConnection has a new parameter routing_configuration
- Model ExpressRouteConnection has a new parameter routing_configuration
- Model FirewallPolicy has a new parameter transport_security
- Model FirewallPolicy has a new parameter identity
- Model FirewallPolicy has a new parameter threat_intel_whitelist
- Model ApplicationRuleCondition has a new parameter target_urls
- Model P2SConnectionConfiguration has a new parameter routing_configuration
- Model BackendAddressPool has a new parameter load_balancer_backend_addresses
- Added operation LoadBalancerBackendAddressPoolsOperations.create_or_update
- Added operation LoadBalancerBackendAddressPoolsOperations.delete
- Added operation group HubRouteTablesOperations

## 10.1.0 (2020-04-10)

**Features**

- Model VpnConnection has a new parameter dpd_timeout_seconds
- Model FirewallPolicy has a new parameter intrusion_system_mode
- Model Subnet has a new parameter ip_allocations
- Model ApplicationGateway has a new parameter force_firewall_policy_association
- Model PrivateEndpoint has a new parameter custom_dns_configs
- Model VirtualNetworkGatewayConnection has a new parameter dpd_timeout_seconds
- Model VpnClientConfiguration has a new parameter radius_servers
- Model VirtualNetwork has a new parameter ip_allocations
- Model VirtualHub has a new parameter security_partner_provider
- Model VpnServerConfiguration has a new parameter radius_servers
- Added operation group PrivateDnsZoneGroupsOperations
- Added operation group SecurityPartnerProvidersOperations
- Added operation group IpAllocationsOperations

## 10.0.0 (2020-03-31)
**Features**

- Model VirtualNetworkGatewayConnection has a new parameter use_local_azure_ip_address
- Model NetworkRuleCondition has a new parameter source_ip_groups
- Model NetworkRuleCondition has a new parameter destination_ip_groups
- Model VirtualNetworkGatewayIPConfiguration has a new parameter private_ip_address
- Model BgpSettings has a new parameter bgp_peering_addresses
- Model ExpressRouteCircuitConnection has a new parameter ipv6_circuit_connection_config
- Model ApplicationGatewayHttpListener has a new parameter host_names
- Model ApplicationRuleCondition has a new parameter source_ip_groups
- Model VirtualNetworkGateway has a new parameter enable_private_ip_address
- Model LocalNetworkGateway has a new parameter fqdn
- Model VpnSiteLink has a new parameter fqdn
- Model NetworkSecurityGroup has a new parameter flow_logs
- Added operation NetworkManagementClientOperationsMixin.put_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixin.get_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixin.delete_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixin.disconnect_active_sessions
- Added operation NetworkManagementClientOperationsMixin.get_active_sessions
- Added operation group NetworkVirtualAppliancesOperations

**Breaking changes**

- Model ApplicationGatewayHttpListener no longer has parameter hostnames

## 9.0.0 (2020-01-17)

**Features**

- Model AzureFirewall has a new parameter ip_groups
- Model AzureFirewall has a new parameter management_ip_configuration
- Model ConnectionMonitorResult has a new parameter endpoints
- Model ConnectionMonitorResult has a new parameter connection_monitor_type
- Model ConnectionMonitorResult has a new parameter test_configurations
- Model ConnectionMonitorResult has a new parameter test_groups
- Model ConnectionMonitorResult has a new parameter outputs
- Model ConnectionMonitorResult has a new parameter notes
- Model AzureFirewallIPConfiguration has a new parameter type
- Model ConnectionMonitor has a new parameter endpoints
- Model ConnectionMonitor has a new parameter test_configurations
- Model ConnectionMonitor has a new parameter test_groups
- Model ConnectionMonitor has a new parameter outputs
- Model ConnectionMonitor has a new parameter notes
- Model DdosSettings has a new parameter protected_ip
- Model ApplicationGatewayRewriteRuleActionSet has a new parameter
url_configuration
- Added operation
  P2sVpnGatewaysOperations.disconnect_p2s_vpn_connections
- Added operation
  VirtualNetworkGatewaysOperations.disconnect_virtual_network_gateway_vpn_connections
- Added operation group FlowLogsOperations

**Breaking changes**

- Operation
  ExpressRouteCircuitAuthorizationsOperations.create_or_update has a new signature
- Model ConnectionMonitorParameters has a new signature

## 8.0.0 (2019-11-12)

**Features**

- Model PrivateLinkServiceConnectionState has a new parameter actions_required
- Model ConnectivityParameters has a new parameter preferred_ip_version

**Breaking changes**

- Model PrivateLinkServiceConnectionState no longer has parameter action_required

## 7.0.0 (2019-10-22)

**Features**

- Model ApplicationGatewayHttpListener has a new parameter hostnames
- Model ApplicationGatewayHttpListener has a new parameter firewall_policy
- Model ApplicationGatewayPathRule has a new parameter firewall_policy
- Model P2SVpnGateway has a new parameter p2_sconnection_configurations
- Model VpnServerConfiguration has a new parameter vpn_client_root_certificates
- Model VpnServerConfiguration has a new parameter radius_server_root_certificates
- Model VpnServerConfiguration has a new parameter radius_client_root_certificates
- Model VpnServerConfiguration has a new parameter vpn_client_revoked_certificates
- Model ExpressRouteConnection has a new parameter
enable_internet_security
- Model AzureFirewallApplicationRule has a new parameter
  source_ip_groups
- Model WebApplicationFirewallPolicy has a new parameter
  path_based_rules
- Model WebApplicationFirewallPolicy has a new parameter
  http_listeners
- Model PrivateLinkService has a new parameter enable_proxy_protocol
- Model AzureFirewallNetworkRule has a new parameter
  destination_ip_groups
- Model AzureFirewallNetworkRule has a new parameter
  source_ip_groups
- Model AzureFirewallNetworkRule has a new parameter
  destination_fqdns
- Model VirtualWAN has a new parameter virtual_wan_type
- Model VirtualHub has a new parameter sku
- Model VirtualHub has a new parameter virtual_hub_route_table_v2s
- Model AzureFirewallNatRule has a new parameter translated_fqdn
- Model AzureFirewallNatRule has a new parameter source_ip_groups
- Model PrivateEndpointConnection has a new parameter link_identifier
- Model AzureFirewall has a new parameter additional_properties
- Added operation RouteFiltersOperations.update_tags
- Added operation ServiceEndpointPoliciesOperations.update_tags
- Added operation
  PrivateLinkServicesOperations.get_private_endpoint_connection
- Added operation
  PrivateLinkServicesOperations.list_private_endpoint_connections
- Added operation group VirtualHubRouteTableV2sOperations
- Added operation group IpGroupsOperations

**Breaking changes**

- Operation AzureFirewallsOperations.update_tags has a new signature
- Operation
  ExpressRouteCircuitAuthorizationsOperations.create_or_update has a
  new signature
- Model P2SVpnGateway no longer has parameter
  p2s_connection_configurations
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_vpn_client_root_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_radius_client_root_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_vpn_client_revoked_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_server_config_radius_server_root_certificates
- Removed operation RouteFiltersOperations.update
- Removed operation VirtualRoutersOperations.update
- Removed operation RouteFilterRulesOperations.update
- Removed operation VirtualRouterPeeringsOperations.update
- Removed operation FirewallPoliciesOperations.update_tags
- Removed operation ServiceEndpointPoliciesOperations.update

## 6.0.0 (2019-10-09)

**Features**

- Model VirtualNetwork has a new parameter bgp_communities
- Model VirtualHub has a new parameter azure_firewall
- Model VirtualHub has a new parameter security_provider_name
- Model P2SVpnGateway has a new parameter p2s_connection_configurations
- Model P2SVpnGateway has a new parameter vpn_server_configuration
- Model AzureFirewall has a new parameter sku
- Model VirtualNetworkGateway has a new parameter inbound_dns_forwarding_endpoint
- Model VirtualNetworkGateway has a new parameter enable_dns_forwarding
- Added operation P2sVpnGatewaysOperations.get_p2s_vpn_connection_health_detailed
- Added operation NetworkManagementClientOperationsMixin.generatevirtualwanvpnserverconfigurationvpnprofile
- Added operation group VpnServerConfigurationsOperations
- Added operation group VpnServerConfigurationsAssociatedWithVirtualWanOperations
- Added operation group AvailableServiceAliasesOperations

**Breaking changes**

- Model WebApplicationFirewallPolicy has a new required parameter managed_rules
- Model P2SVpnGateway no longer has parameter vpn_client_address_pool
- Model P2SVpnGateway no longer has parameter custom_routes
- Model P2SVpnGateway no longer has parameter p2_svpn_server_configuration
- Model VirtualWAN no longer has parameter security_provider_name
- Model VirtualWAN no longer has parameter p2_svpn_server_configurations
- Model PolicySettings has a new signature

## 5.1.0 (2019-10-03)

**Features**

- Model VirtualNetworkGateway has a new parameter
- Model ExpressRoutePort has a new parameter identity
- Model VirtualNetworkGatewayConnection has a new parameter traffic_selector_policies
- Model ExpressRouteLink has a new parameter mac_sec_config
- Model VirtualNetworkGatewayConnectionListEntity has a new parameter traffic_selector_policies
- Model NetworkInterfaceIPConfiguration has a new parameter private_link_connection_properties
- Model ApplicationGatewayRequestRoutingRule has a new parameter priority
- Added operation
  VirtualNetworkGatewayConnectionsOperations.stop_packet_capture
- Added operation
  VirtualNetworkGatewayConnectionsOperations.start_packet_capture
- Added operation ConnectionMonitorsOperations.update_tags
- Added operation
  VirtualNetworkGatewaysOperations.stop_packet_capture
- Added operation
  VirtualNetworkGatewaysOperations.start_packet_capture
- Added operation group VirtualRoutersOperations
- Added operation group VirtualRouterPeeringsOperations

## 5.0.0 (2019-08-27)

**Features**

- Model PrivateLinkServiceIpConfiguration has a new parameter primary
- Model PrivateLinkServiceIpConfiguration has a new parameter etag
- Model PrivateLinkServiceIpConfiguration has a new parameter type
- Model PrivateLinkServiceIpConfiguration has a new parameter id
- Model AzureFirewall has a new parameter virtual_hub
- Model AzureFirewall has a new parameter hub_ip_addresses
- Model AzureFirewall has a new parameter firewall_policy
- Model PrivateLinkServiceConnection has a new parameter provisioning_state
- Model PrivateLinkServiceConnection has a new parameter etag
- Model PrivateLinkServiceConnection has a new parameter type
- Model PublicIPPrefix has a new parameter load_balancer_frontend_ip_configuration
- Model ApplicationGatewayOnDemandProbe has a new parameter backend_address_pool
- Model ApplicationGatewayOnDemandProbe has a new parameter backend_http_settings
- Model PrivateEndpointConnection has a new parameter provisioning_state
- Model PrivateEndpointConnection has a new parameter etag
- Model PrivateEndpointConnection has a new parameter type
- Added operation SubnetsOperations.unprepare_network_policies
- Added operation group FirewallPolicyRuleGroupsOperations
- Added operation group FirewallPoliciesOperations

**Breaking changes**

- Model PrivateLinkServiceIpConfiguration no longer has parameter public_ip_address
- Model ApplicationGatewayOnDemandProbe no longer has parameter backend_pool_name
- Model ApplicationGatewayOnDemandProbe no longer has parameter backend_http_setting_name

## 4.0.0 (2019-07-19)

**Features**

- Model Subnet has a new parameter private_link_service_network_policies
- Model Subnet has a new parameter private_endpoint_network_policies
- Model VpnSite has a new parameter vpn_site_links
- Model LoadBalancingRule has a new parameter type
- Model BackendAddressPool has a new parameter outbound_rules
- Model BackendAddressPool has a new parameter type
- Model InboundNatPool has a new parameter type
- Model OutboundRule has a new parameter type
- Model InboundNatRule has a new parameter type
- Model Probe has a new parameter type
- Model FrontendIPConfiguration has a new parameter private_ip_address_version
- Model FrontendIPConfiguration has a new parameter type
- Model AvailablePrivateEndpointType has a new parameter name
- Model AvailablePrivateEndpointType has a new parameter resource_name
- Model VpnConnection has a new parameter vpn_link_connections
- Added operation AvailablePrivateEndpointTypesOperations.list_by_resource_group
- Added operation AzureFirewallsOperations.update_tags
- Added operation PrivateLinkServicesOperations.check_private_link_service_visibility_by_resource_group
- Added operation PrivateLinkServicesOperations.list_auto_approved_private_link_services
- Added operation PrivateLinkServicesOperations.check_private_link_service_visibility
- Added operation PrivateLinkServicesOperations.list_auto_approved_private_link_services_by_resource_group
- Added operation group VpnLinkConnectionsOperations
- Added operation group VpnSiteLinkConnectionsOperations
- Added operation group VpnSiteLinksOperations

**Breaking changes**

- Operation SubnetsOperations.prepare_network_policies has a new signature
- Model PrepareNetworkPoliciesRequest no longer has parameter resource_group_name
- Model AvailablePrivateEndpointType no longer has parameter service_name
- Removed operation group AvailableResourceGroupPrivateEndpointTypesOperations

## 3.0.0 (2019-05-24)

**Features**

- Model NetworkInterface has a new parameter private_endpoint
- Model ServiceAssociationLink has a new parameter type
- Model ServiceAssociationLink has a new parameter allow_delete
- Model ServiceAssociationLink has a new parameter locations
- Model Subnet has a new parameter private_endpoints
- Model PatchRouteFilter has a new parameter ipv6_peerings
- Model ExpressRouteCircuitPeering has a new parameter type
- Model ApplicationGatewayProbe has a new parameter port
- Model RouteFilter has a new parameter ipv6_peerings
- Model ExpressRouteCircuitAuthorization has a new parameter type
- Model PeerExpressRouteCircuitConnection has a new parameter type
- Model AzureFirewall has a new parameter zones
- Model ResourceNavigationLink has a new parameter type
- Model ExpressRouteCircuitConnection has a new parameter type
- Model VpnConnection has a new parameter use_policy_based_traffic_selectors
- Model NatGateway has a new parameter zones
- Model VpnClientConfiguration has a new parameter aad_audience
- Model VpnClientConfiguration has a new parameter aadIssuer
- Model VpnClientConfiguration has a new parameter aadTenant
- Added operation VirtualNetworkGatewaysOperations.get_vpnclient_connection_health
- Added operation P2sVpnGatewaysOperations.get_p2s_vpn_connection_health
- Added operation VpnGatewaysOperations.reset
- Added operation group BastionHostsOperations
- Added operation group NetworkManagementClientOperationsMixin
- Added operation group PrivateLinkServicesOperations
- Added operation group AvailableResourceGroupPrivateEndpointTypesOperations
- Added operation group ServiceAssociationLinksOperations
- Added operation group ResourceNavigationLinksOperations
- Added operation group ServiceTagsOperations
- Added operation group PrivateEndpointsOperations
- Added operation group AvailablePrivateEndpointTypesOperations

**Breaking changes**

- Model NetworkInterface no longer has parameter interface_endpoint
- Model Subnet no longer has parameter interface_endpoints
- Removed operation group InterfaceEndpointsOperations

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes if you were importing from the v20xx_yy_zz API folders. In summary, some modules were incorrectly visible/importable and have been renamed. This fixed several issues caused by usage of classes that were not supposed to be used in the first place.

- NetworkManagementClient cannot be imported from `azure.mgmt.network.v20xx_yy_zz.network_management_client` anymore (import from `azure.mgmt.network.v20xx_yy_zz` works like before)
- NetworkManagementClientConfiguration import has been moved from `azure.mgmt.network.v20xx_yy_zz.network_management_client` to `azure.mgmt.network.v20xx_yy_zz`
- A model `MyClass` from a "models" sub-module cannot be imported anymore using `azure.mgmt.network.v20xx_yy_zz.models.my_class` (import from `azure.mgmt.network.v20xx_yy_zz.models` works like before)
- An operation class `MyClassOperations` from an `operations` sub-module cannot be imported anymore using `azure.mgmt.network.v20xx_yy_zz.operations.my_class_operations` (import from `azure.mgmt.network.v20xx_yy_zz.operations` works like before)

Last but not least, HTTP connection pooling is now enabled by default. You should always use a client as a context manager, or call close(), or use no more than one client per process.

## 2.7.0 (2019-04-25)

**Features**

- Model P2SVpnGateway has a new parameter custom_routes
- Model Subnet has a new parameter nat_gateway
- Model VpnConnection has a new parameter
  use_local_azure_ip_address
- Model EffectiveRoute has a new parameter
  disable_bgp_route_propagation
- Model VirtualNetworkGateway has a new parameter custom_routes
- Added operation
  ApplicationGatewaysOperations.backend_health_on_demand
- Added operation DdosProtectionPlansOperations.update_tags
- Added operation group NatGatewaysOperations

**Bug fixes and preview API updates**

- Parameter output_blob_sas_url of model
  GetVpnSitesConfigurationRequest is now required
- Operation VpnSitesConfigurationOperations.download has a new
  signature
- Model ExpressRouteCircuit no longer has parameter
  allow_global_reach

## 2.6.0 (2019-03-21)

**Features**

- Model ApplicationGateway has a new parameter firewall_policy
- Model ApplicationGatewayBackendHealthServer has a new parameter
  health_probe_log
- Model ExpressRouteCircuitPeering has a new parameter
  peered_connections
- Model ExpressRouteCircuit has a new parameter global_reach_enabled
- Added operation group PeerExpressRouteCircuitConnectionsOperations
- Added operation group WebApplicationFirewallPoliciesOperations

**Bugfixes**

- Fix incorrect operation
  ApplicationGatewaysOperations.list_available_request_headers
- Fix incorrect operation
  ApplicationGatewaysOperations.list_available_server_variables
- Fix incorrect operation
  ApplicationGatewaysOperations.list_available_response_headers

## 2.6.0rc1 (2019-02-15)

**Features**

- Model AzureFirewall has a new parameter threat_intel_mode
- Model ApplicationGatewayRewriteRule has a new parameter conditions
- Model ApplicationGatewayRewriteRule has a new parameter
- Model ApplicationGatewayAutoscaleConfiguration has a new parameter max_capacity
- Added operation SubnetsOperations.prepare_network_policies

## 2.5.1 (2019-01-15)

**Features**

- Add missing ddos_custom_policies operations

## 2.5.0 (2019-01-04)

**Features**

- Model PublicIPAddress has a new parameter ddos_settings
- Added operation ApplicationGatewaysOperations.list_available_request_headers
- Added operation ApplicationGatewaysOperations.list_available_server_variables
- Added operation ApplicationGatewaysOperations.list_available_response_headers
- Added operation ApplicationSecurityGroupsOperations.update_tags

## 2.4.0 (2018-11-27)

**Features**

- Model ApplicationGatewaySslCertificate has a new parameter key_vault_secret_id
- Model ApplicationGatewayRequestRoutingRule has a new parameter rewrite_rule_set
- Model FlowLogInformation has a new parameter format
- Model ApplicationGateway has a new parameter identity
- Model ApplicationGateway has a new parameter rewrite_rule_sets
- Model TrafficAnalyticsConfigurationProperties has a new parameter traffic_analytics_interval
- Model ApplicationGatewayPathRule has a new parameter rewrite_rule_set
- Model ApplicationGatewayUrlPathMap has a new parameter default_rewrite_rule_set

**Breaking changes**

- Model ApplicationGatewayTrustedRootCertificate no longer has parameter keyvault_secret_id (replaced by key_vault_secret_id)

## 2.3.0 (2018-11-07)
**Features**

- Model ApplicationGatewayWebApplicationFirewallConfiguration has a new parameter exclusions
- Model ApplicationGatewayWebApplicationFirewallConfiguration has a new parameter file_upload_limit_in_mib
- Model ApplicationGatewayWebApplicationFirewallConfiguration has a new parameter max_request_body_size_in_kb
- Model ApplicationGatewayHttpListener has a new parameter custom_error_configurations
- Model ExpressRouteCircuit has a new parameter bandwidth_in_gbps
- Model ExpressRouteCircuit has a new parameter stag
- Model ExpressRouteCircuit has a new parameter express_route_port
- Model EvaluatedNetworkSecurityGroup has a new parameter applied_to
- Model NetworkConfigurationDiagnosticResult has a new parameter profile
- Model ApplicationGateway has a new parameter custom_error_configurations
- Added operation group LoadBalancerOutboundRulesOperations
- Added operation group ExpressRouteLinksOperations
- Added operation group ExpressRoutePortsOperations
- Added operation group ExpressRoutePortsLocationsOperations

**Breaking changes**

- Model NetworkConfigurationDiagnosticResult no longer has parameter traffic_query
- Operation NetworkWatchersOperations.get_network_configuration_diagnostic has a new signature (no longer takes target_resource_id, queries, but a NetworkConfigurationDiagnosticParameters instance)

## 2.2.1 (2018-09-14)

**Bugfixes**

- Fix unexpected exception with network_profiles.delete

## 2.2.0 (2018-09-11)

Default API version is now 2018-08-01

**Features**

- Model AzureFirewall has a new parameter nat_rule_collections
- Model VirtualHub has a new parameter route_table
- Model VirtualHub has a new parameter virtual_network_connections
- Model VirtualHub has a new parameter p2_svpn_gateway
- Model VirtualHub has a new parameter express_route_gateway
- Model VirtualHub has a new parameter vpn_gateway
- Model VirtualWAN has a new parameter allow_vnet_to_vnet_traffic
- Model VirtualWAN has a new parameter p2_svpn_server_configurations
- Model VirtualWAN has a new parameter office365_local_breakout_category
- Model VirtualWAN has a new parameter allow_branch_to_branch_traffic
- Model VirtualWAN has a new parameter security_provider_name
- Model VpnSite has a new parameter is_security_site
- Model VpnConnection has a new parameter connection_bandwidth
- Model VpnConnection has a new parameter allow_branch_to_branch_traffic
- Model VpnConnection has a new parameter security_provider_name
- Model VpnConnection has a new parameter enable_internet_security
- Model VpnConnection has a new parameter vpn_connection_protocol
- Model VpnConnection has a new parameter enable_rate_limiting
- Model ServiceEndpointPolicy has a new parameter subnets
- Model AzureFirewallApplicationRule has a new parameter fqdn_tags
- Model AzureFirewallApplicationRule has a new parameter target_fqdns
- Model VpnGateway has a new parameter vpn_gateway_scale_unit
- Model ApplicationGatewayBackendHttpSettings has a new parameter trusted_root_certificates
- Model VirtualNetworkGatewayGatewayConnection has a new parameter connection_protocol
- Model ExpressRouteCircuitPeering has a new parameter express_route_connection
- Model Subnet has a new parameter delegations
- Model Subnet has a new parameter address_prefixes
- Model Subnet has a new parameter ip_configuration_profiles
- Model Subnet has a new parameter service_association_links
- Model Subnet has a new parameter interface_endpoints
- Model Subnet has a new parameter purpose
- Model ApplicationGateway has a new parameter trusted_root_certificates
- Model NetworkInterface has a new parameter tap_configurations
- Model NetworkInterface has a new parameter hosted_workloads
- Model NetworkInterface has a new parameter interface_endpoint
- Model VirtualNetworkGatewayGatewayConnectionListEntity has a new parameter connection_protocol
- Model HubVirtualNetworkConnection has a new parameter enable_internet_security
- Model NetworkInterfaceIPConfiguration has a new parameter virtual_network_taps
- Added operation VirtualNetworkGatewaysOperations.reset_vpn_client_shared_key
- Added operation group ExpressRouteConnectionsOperations
- Added operation group AzureFirewallFqdnTagsOperations
- Added operation group VirtualNetworkTapsOperations
- Added operation group NetworkProfilesOperations
- Added operation group P2sVpnServerConfigurationsOperations
- Added operation group AvailableDelegationsOperations
- Added operation group InterfaceEndpointsOperations
- Added operation group P2sVpnGatewaysOperations
- Added operation group AvailableResourceGroupDelegationsOperations
- Added operation group ExpressRouteGatewaysOperations
- Added operation group NetworkInterfaceTapConfigurationsOperations

**Breaking changes**

- Model VirtualHub no longer has parameter
  hub_virtual_network_connections
- Model VpnConnection no longer has parameter
  connection_bandwidth_in_mbps
- Model AzureFirewallApplicationRule no longer has parameter
  target_urls
- Model VpnGateway no longer has parameter policies
- Model AzureFirewallIPConfiguration no longer has parameter
  internal_public_ip_address
- Model ApplicationGatewayAutoscaleConfiguration has a new signature
- Renamed virtual_wa_ns to virtual_wans

## 2.1.0 (2018-08-28)

Default API version is now 2018-07-01

**Features**

- Model ExpressRouteCircuit has a new parameter allow_global_reach
- Model PublicIPAddress has a new parameter public_ip_prefix
- Model BackendAddressPool has a new parameter outbound_rule
  (replaces outbound_nat_rule)
- Model FrontendIPConfiguration has a new parameter outbound_rules
  (replaces outbound_nat_rule)
- Model FrontendIPConfiguration has a new parameter public_ip_prefix
- Model LoadBalancingRule has a new parameter enable_tcp_reset
- Model VirtualNetworkGatewayConnectionListEntity has a new parameter
  express_route_gateway_bypass
- Model VirtualNetworkGatewayConnection has a new parameter
  express_route_gateway_bypass
- Model Subnet has a new parameter service_endpoint_policies
- Model InboundNatPool has a new parameter enable_tcp_reset
- Model LoadBalancer has a new parameter outbound_rules (replaces
  outbound_nat_rule)
- Model InboundNatRule has a new parameter enable_tcp_reset
- Added operation group ServiceEndpointPolicyDefinitionsOperations
- Added operation group ServiceEndpointPoliciesOperations
- Added operation group PublicIPPrefixesOperations

**Breaking changes**

- Model BackendAddressPool no longer has parameter outbound_nat_rule (now outbound_rules)
- Model FrontendIPConfiguration no longer has parameter outbound_nat_rules (now outbound_rules)
- Model LoadBalancer no longer has parameter outbound_nat_rules (now outbound_rules)

## 2.0.1 (2018-08-07)

**Bugfixes**

- Fix packet_captures.get_status empty output

## 2.0.0 (2018-07-27)

**Features**

- Supports now 2018-06-01 and 2018-04-01. 2018-06-01 is the new default.
- Client class can be used as a context manager to keep the underlying HTTP session open for performance

**Features starting 2018-04-01**

- Model FlowLogInformation has a new parameter flow_analytics_configuration
- Model ApplicationGateway has a new parameter enable_fips
- Model ApplicationGateway has a new parameter autoscale_configuration
- Model ApplicationGateway has a new parameter zones
- Model ConnectionSharedKey has a new parameter id
- Added operation group HubVirtualNetworkConnectionsOperations
- Added operation group AzureFirewallsOperations
- Added operation group VirtualHubsOperations
- Added operation group VpnGatewaysOperations
- Added operation group VpnSitesOperations
- Added operation group VirtualWANsOperations
- Added operation group VpnSitesConfigurationOperations
- Added operation group VpnConnectionsOperations

**Breaking changes starting 2018-04-01**

- Operation
VirtualNetworkGatewayConnectionsOperations.set_shared_key has a new parameter "id"
- Operation DdosProtectionPlansOperations.create_or_update parameter "parameters" has been flatten to "tags/location"

**Breaking changes starting 2018-06-01**
- The new class VpnConnection introduced in 2018-04-01 renamed "connection_bandwidth" to "connection_bandwidth_in_mbps"

## 2.0.0rc3 (2018-06-14)

**Bugfixes**
- API version 2018-02-01 enum Probe now supports HTTPS (standard SKU load balancer)
- API version 2015-06-15 adding missing "primary" in NetworkInterfaceIPConfiguration

## 2.0.0rc2 (2018-04-03)

**Features**
- All clients now support Azure profiles.
- API version 2018-02-01 is now the default
- Express Route Circuit Connection (considered preview)
- Express Route Provider APIs
- GetTopologyOperation supports query parameter
- Feature work for setting Custom IPsec/IKE policy for Virtual Network Gateway point-to-site clients
- DDoS Protection Plans

## 2.0.0rc1 (2018-03-07)

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes.

- Model signatures now use only keyword-argument syntax. All positional arguments must be re-written as keyword-arguments. To keep auto-completion in most cases, models are now generated for Python 2 and Python 3. Python 3 uses the "*" syntax for keyword-only arguments.
- Enum types now use the "str" mixin (class AzureEnum(str, Enum)) to improve the behavior when unrecognized enum values are encountered. While this is not a breaking change, the distinctions are important, and are documented here:
At a glance:
- "is" should not be used at all.
- "format" will return the string value, where "%s" string formatting will return `NameOfEnum.stringvalue`. Format syntax should be preferred.

- New Long Running Operation:
  - Return type changes from `msrestazure.azure_operation.AzureOperationPoller` to `msrest.polling.LROPoller`. External API is the same.
  - Return type is now **always** a `msrest.polling.LROPoller`, regardless of the optional parameters used.
  - The behavior has changed when using `raw=True`. Instead of returning the initial call result as `ClientRawResponse`, without polling, now this returns an LROPoller. After polling, the final resource will be returned as a `ClientRawResponse`.
  - New `polling` parameter. The default behavior is `Polling=True` which will poll using ARM algorithm. When `Polling=False`, the response of the initial call will be returned without polling.
  - `polling` parameter accepts instances of subclasses of `msrest.polling.PollingMethod`.
  - `add_done_callback` will no longer raise if called after polling is finished, but will instead execute the callback right away.

**Network Breaking changes**

- Operation `network_watcher.get_topology` changed method signature

**Features**

- Add ConnectionMonitor operation group (2017-10/11-01)
- Add `target_virtual_network` / `target_subnet` to `topology_parameter` (2017-10/11-01)
- Add `idle_timeout_in_minutes` / `enable_floating_ip` to `inbound_nat_pool` (2017-11-01)

**Bugfixes**

- Fix `peer_asn` validation rules (2017-10/11-01)

## 1.7.1 (2017-12-20)

**Bugfixes**

Fix `SecurityRule` constructor parameters order to respect the one used until 1.5.0. This indeed introduces a breaking change for users of
1.6.0 and 1.7.0, but this constructor signature change was not expected, and following semantic versioning all 1.x versions should follow the same signature.

This fixes third party library, like Ansible, that expects (for excellent reasons) this SDK to follow strictly semantic versioning with regards to breaking changes and have their dependency system asking for `>=1.0;<2.0`

### 1.7.0 (2017-12-14)

**Features**

- Add ipTag. IpTag is way to restrict the range of IPaddresses to be allocated.
- Default API version is now 2017-11-01

**Bug fixes**

- Added valid ASN range in ExpressRouteCircuitPeering (#1672)

### 1.6.0 (2017-11-28)

**Bug fixes**

- Accept space in location for "usage" (i.e. "west us").
- sourceAddressPrefix, sourceAddressPrefixes and sourceApplicationSecurityGroups are mutually exclusive and one only is needed, meaning none of them is required by itself. Thus, sourceAddressPrefix is not required anymore.
- destinationAddressPrefix, destinationAddressPrefixes and destinationApplicationSecurityGroups are mutually exclusive and one only is needed, meaning none of them is required by itself. Thus, destinationAddressPrefix is not required anymore.
- Client now accept unicode string as a valid subscription_id parameter
- Restore missing azure.mgmt.network.__version__

**Features**

- Client now accept a "profile" parameter to define API version per operation group.
- Add update_tags to most of the resources
- Add operations group to list all available rest API operations
- NetworkInterfaces_ListVirtualMachineScaleSetIpConfigurations
- NetworkInterfaces_GetVirtualMachineScaleSetIpConfiguration

### 1.5.0 (2017-09-26)
**Features**

- Availability Zones
- Add network_watchers.get_azure_reachability_report
- Add network_watchers.list_available_providers
- Add virtual_network_gateways.supported_vpn_devices
- Add virtual_network_gateways.vpn_device_configuration_script

## 1.5.0rc1 (2017-09-18)

**Features**

- Add ApiVersion 2017-09-01 (new default)
- Add application_security_groups (ASG) operations group
- Add ASG to network_interface operations
- Add ASG to IP operations
- Add source/destination ASGs to network security rules
- Add DDOS protection and VM protection to vnet operations

**Bug fix**

- check_dns_name_availability now correctly defines "domain_name_label" as required and not optional

## 1.4.0 (2017-08-23)

**Features**

- Add ApiVersion 2017-08-01 (new default)
- Added in both 2017-08-01 and 2017-06-01:
  - virtual_network_gateways.list_connections method
  - default_security_rules operations group
  - inbound_nat_rules operations group
  - load_balancer_backend_address_pools operations group
  - load_balancer_frontend_ip_configurations operations group
  - load_balancer_load_balancing_rules operations group
  - load_balancer_network_interfaces operations group
  - load_balancer_probes operations group
  - network_interface_ip_configurations operations group
  - network_interface_load_balancers operations group
  - EffectiveNetworkSecurityGroup.tag_map attribute
  - EffectiveNetworkSecurityRule.source_port_ranges attribute
  - EffectiveNetworkSecurityRule.destination_port_ranges attribute
  - EffectiveNetworkSecurityRule.source_address_prefixes attribute
  - EffectiveNetworkSecurityRule.destination_address_prefixes attribute
  - SecurityRule.source_port_ranges attribute
- SecurityRule.destination_port_ranges attribute
- SecurityRule.source_address_prefixes attribute
- SecurityRule.destination_address_prefixes attribute
- Added in 2017-08-01 only
  - PublicIPAddress.sku
  - LoadBalancer.sku

**Changes on preview**

> - "available_private_access_services" is renamed
> - "available_endpoint_services"
> - "radius_secret" parsing fix (was unable to work in 1.3.0)

## 1.3.0 (2017-07-10)

**Preview features**

- Adding "available_private_access_services" operation group (preview)
- Adding "radius_secret" in Virtual Network Gateway (preview)

**Bug Fixes**

- VMSS Network ApiVersion fix in 2017-06-01 (point to 2017-03-30)

## 1.2.0 (2017-07-03)

**Features**

Adding the following features to both 2017-03-01 and 2017-06-01:

- express route ipv6
- VMSS Network (get, list, etc.)
- VMSS Public IP (get, list, etc.)

## 1.1.0 (2017-06-27)

**Features**

- Add list_usage in virtual networks (2017-03-01)
- Add ApiVersion 2017-06-01 (new default)

This new ApiVersion is for new Application Gateway features:

> - ApplicationGateway Ssl Policy custom cipher suites support [new
> properties added to Sslpolicy Property of
> ApplicationGatewayPropertiesFormat]
> - Get AvailableSslOptions api [new resource
- ApplicationGatewayAvailableSslOptions and child resource
- ApplicationGatewayPredefinedPolicy
- Redirection support [new child resource
- ApplicationGatewayRedirectConfiguration for Application Gateway,
  new properties in UrlPathMap, PathRules and RequestRoutingRule]
- Azure Websites feature support [new properties in
  ApplicationGatewayBackendHttpSettingsPropertiesFormat,
  ApplicationGatewayProbePropertiesFormat, schema for property
  ApplicationGatewayProbeHealthResponseMatch]

## 1.0.0 (2017-05-15)

- Tag 1.0.0rc3 as stable (same content)

## 1.0.0rc3 (2017-05-03)

**Features**

- Added check connectivity api to network watcher

## 1.0.0rc2 (2017-04-18)

**Features**

- Add ApiVersion 2016-12-01 and 2017-03-01
  - 2017-03-01 is now default ApiVersion

**Bugfixes**

- Restore access to NetworkWatcher and PacketCapture from 2016-09-01

## 1.0.0rc1 (2017-04-11)

**Features**

To help customers with sovereign clouds (not general Azure), this
version has official multi ApiVersion support for 2015-06-15 and
2016-09-01

## 0.30.1 (2017-03-27)

- Add NetworkWatcher
- Add PacketCapture
- Add new methods to Virtualk Network Gateway
  - get_bgp_peer_status
  - get_learned_routes
  - get_advertised_routes
# 1.184 pkg-config 0.27.1 4.el7

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1.187 linux-libc-headers 3.1 r0

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1.189 tre 0.8.0

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1.191 cdebconf 0.249
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1.192 byte-buddy 1.9.16

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 * Painless invokedynamic bootstrap for the call site.
 * <p>
 * Has 11 flavors (passed as static bootstrap parameters): dynamic method call,
 * dynamic field load (getter), and dynamic field store (setter), dynamic array load,
 * dynamic array store, iterator, method reference, unary operator, binary operator,
 * shift operator, and dynamic array index normalize.
 * <p>
 * When a new type is encountered at the call site, we lookup from the appropriate
 * whitelist, and cache with a guard. If we encounter too many types, we stop caching.
 * <p>
 * Based on the cascaded inlining cache from the JSR 292 cookbook
 * (https://code.google.com/archive/p/jsr292-cookbook/, BSD license)
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1.195 jboss-stdio 1.1.0.Final

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1.196 spring-data-jpa 2.1.19.RELEASE

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The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by
a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999). The textbook (containing a proof that the shuffle is uniformly random) is available here:


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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
define_COMPAT_POLL_H_

typedef struct pollfd {
int fd;
short events;
short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM(-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 *
Open Source Used In SDWan 20.6.1 3270
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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   */
#endif /* !HAVE_SETREGSID */
intsetregid(gid_t, gid_t, gid_t);
#endif /* !HAVE_SETRESUID */
intsetresuid(uid_t, uid_t, uid_t);
#endif
1.204 jbossws-common 3.3.0.Final

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1.205 opensaml-xacml-impl 3.3.1

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
...
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

>>> for field in received_record:
    print('{} is {}'.format(field, received_record[field]))

id is 123
room is 321
house is 0

>>> record == received_record
True

>>> received_record.update(room=123)

>>> substrate = encode(received_record)

>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B

```

The `pyasn1` classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their `pyasn1` classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode

encode(record)

{'id': 123, 'room': 321, 'house': 0}

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode

record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())

str(record)

Record:
id=123
room=321

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, `pyasn1` supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming `pyasn1` release.
More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question on Stack Overflow([http://stackoverflow.com/questions/ask](http://stackoverflow.com/questions/ask)) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
========================

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Abstract Syntax Notation One (ASN.1)
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>_ is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation
problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.

Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
--------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.
On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
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.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

/changelog

License
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Getting help
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Books on ASN.1
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The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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1.208 jackson-datatype-jsr310 2.10.1

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1.209 p11-kit 0.23.9-2ubuntu0.1
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1.210 regexp 2.7.2

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1.211 unzip 6.0 21.el7

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FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project. Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports. Please read LICENSE first to find out what is allowed to do with
There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is
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* with significant code contributions by Nitin Ganatra
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* Basic encoding and decoding of Macintosh files to the MacBinary III spec.

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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-----

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.212 cloud-init 20.2
1.212.1 Available under license:

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1.222 smallrye-config-source-file-system

1.6.2

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Found in path(s):
1.223 metrics 3.2.5

1.224 ace-builds 1.2.3

1.225 jakarta activation api 1.2.1

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1.226 wildfly-ee-security 19.1.0.Final

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1.227 javassist 3.20.0-GA

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<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
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<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
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</head>

<body>

<!-- Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a href="/" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="/foundation/">Overview</a></li>

<li><a href="/foundation/members.html/">Members</a></li>

<li><a href="/foundation/how-it-works.html/">Process</a></li>

<li><a href="/foundation/sponsorship.html/">Sponsorship</a></li>

<li><a href="/foundation/glossary.html/">Glossary</a></li>

<li><a href="/foundation/preFAQ.html/">FAQ</a></li>

<li><a href="/foundation/contact.html/">Contact</a></li>

</ul>

</li>

<li><a href="/index.html#projects-list/">Projects</a></li>

</ul>

</div>

</div>

</nav>

</header>

</body>
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1.234 libbz 1.0.6 r5

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
---------------
The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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----------------------------

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-----------------

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UUencode and UUdecode functions
-------------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

The `xmlrpc.client` module contains the following notice::

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-------------

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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
  Samuel Neves (supercop/crypto_auth/siphash24/little)
  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
----------------

The file `Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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----

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cfuhash
The implementation of the hash table used by the `:mod:`tracemalloc` is based on the cfuhash project:

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.250 libxml 2.9.1 6.el7.4

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1.251 artemis-dto 2.10.1
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1.252 neo4j-consistency-check 4.1.7

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  jar/org/springframework/core/task/TaskRejectedException.java
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* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
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* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
  jar/org/springframework/core/style/DefaultValueStyler.java
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* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/asm/SymbolTable.java
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* /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-jar/org/springframework/asm/AnnotationVisitor.java
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  jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
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  * /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
    jar/org/springframework/util/SimpleIdGenerator.java
  * /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
    jar/org/springframework/util/IdGenerator.java
  * /opt/cola/permits/1141637612_1615091580.56/0/spring-core-5-1-17-release-sources-
    jar/org/springframework/util/ResizableByteArrayOutputStream.java
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    jar/org/springframework/core/annotation/SynthesizedAnnotation.java
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    jar/org/springframework/core/convert/support/StringToCharsetConverter.java
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1.262 django 1.11.15

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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django.dispatch was originally forked from PyDispatcher.

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Advice for new contributors

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

First steps

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

   The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

   If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

   Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

   Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as
expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

**Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

    The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. _reports page: https://code.djangoproject.com/wiki/Reports

.. _CLA: https://www.djangoproject.com/foundation/cla/

.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/

.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines

=============

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

**Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

**Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

**Start small**

It's easier to get feedback on a little issue than on a big one. See the
If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

**Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

**Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

**Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

**Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ

---

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed??**
First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

   Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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1.263 python-setuptools 56.2.0
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1.264 jackson-datatype-jdk8 2.10.1
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1.266 jaxws-undertow-httpspi 1.0.1.Final

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1.268 requests-ntlm 0.3.0
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Contributors
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- `Carson Lam`

.. _Carson Lam: https://github.com/rbcarson

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**Author:**

Ardo van Rangelrooij <ardo@debian.org>
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1.277 libevent 2.1.8-stable

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1.281 adal 1.2.7

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Metadata-Version: 2.1
Name: adal
Version: 1.2.7
Summary: Note: This library is already replaced by MSAL Python, available here: https://pypi.org/project/msal/ .ADAL Python remains available here as a legacy. The ADAL for Python library makes it easy for python application to authenticate to Azure Active Directory (AAD) in order to access AAD protected web resources.
Home-page: https://github.com/AzureAD/azure-activedirectory-library-for-python
Author: Microsoft Corporation
Author-email: nugetaad@microsoft.com
License: MIT
Description: ---

This library, ADAL for Python, will no longer receive new feature improvements. Instead, use the new library [MSAL for Python](https://github.com/AzureAD/microsoft-authentication-library-for-python).

* If you are starting a new project, you can get started with the [MSAL Python docs](https://github.com/AzureAD/microsoft-authentication-library-for-python/wiki) for details about the scenarios, usage, and relevant concepts.
* If your application is using the previous ADAL Python library, you can follow this [migration guide](https://docs.microsoft.com/en-us/azure/active-directory/develop/migrate/python-adal-msal) to update to MSAL Python.
* Existing applications relying on ADAL Python will continue to work.

---
# Microsoft Azure Active Directory Authentication Library (ADAL) for Python

`master` branch | `dev` branch | Reference Docs
----------------|--------------|-------------
| [Getting Started](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki) | [Docs](https://aka.ms/aaddev) | [Python Samples](https://github.com/Azure-Samples?q=active-directory&language=python) | [Support](README.md#community-help-and-support) | [Feedback](https://forms.office.com/r/wX0UuEF8kX)
| --- | --- | --- | --- | --- |

The ADAL for Python library enables python applications to authenticate with Azure AD and get tokens to access Azure AD protected web resources.

You can learn in detail about ADAL Python functionality and usage documented in the [Wiki](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki).

## Installation and Usage

You can find the steps to install and basic usage of the library under [ADAL Basics](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki/ADAL-basics) page in the Wiki.

## Samples and Documentation

We provide a full suite of [Python sample applications on GitHub](https://github.com/Azure-Samples?q=active-directory&language=python) to help you get started with learning the Azure Identity system. This will include tutorials for native clients and web applications. We also provide full walkthroughs for authentication flows such as OAuth2, OpenID Connect and for calling APIs such as the Graph API.

There are also some [lightweight samples existing inside this repo](https://github.com/AzureAD/azure-activedirectory-library-for-python/tree/dev/sample).

You can find the relevant samples by scenarios listed in this [wiki page for acquiring tokens using ADAL Python](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki/Adal-python-apis-for-corresponding-flows).

The documents on [Auth Scenarios](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-authentication-scenarios#application-types-and-scenarios) and [Auth protocols](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-protocols-openid-connect-code) are recommended reading.
## Versions

This library follows [Semantic Versioning](https://semver.org/).

You can find the changes for each version under [Releases](https://github.com/AzureAD/azure-activedirectory-library-for-python/releases).

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We recommend you use the "adal" tag so we can see it! Here is the latest Q&A on Stack Overflow for ADAL: [https://stackoverflow.com/questions/tagged/adal](https://stackoverflow.com/questions/tagged/adal)

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Platform: UNKNOWN
Classifier: Development Status :: 6 - Mature
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
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The ADAL for Python library enables Python applications to authenticate with Azure AD and get tokens to access Azure AD protected web resources.

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The documents on [Auth Scenarios](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-authentication-scenarios#application-types-and-scenarios) and [Auth protocols](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-protocols-openid-connect-code) are recommended reading.

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* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4.1.50-final-sources-1-
jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4.1.50-final-sources-1-
jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4.1.50-final-sources-1-
jar/io/netty/buffer/ByteBufProcessor.java
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  jar/io/netty/buffer/search/BitapSearchProcessorFactory.java
  */opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/search/MultiSearchProcessorFactory.java
  */opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/SearchProcessor.java
  */opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-

jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/search/MultiSearchProcessor.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PoolSubpageMetric.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PoolChunkMetric.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/HeapByteBufUtil.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PoolChunkListMetric.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PoolArenaMetric.java

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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/ReadOnlyByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PoolChunk.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PoolChunkList.java
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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iD8DBQFFoniQJ3VhFus9dGQRAmJmAjwL5yl1oohVQIICsparvJHMQuwqwCgiZFy
LBDVaaad1bJ1v1EHY901kPcg=
=6rqm
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iQEcBAEBAgAUG6qlQ9BBtAAoJEMHhjBmtgF91HDchH/2nQDPuPztWFrBifnEoLFe6Jl
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iD8DBQFD37/4dL6fIzr4c+6kRAtslAJ41tfd3lj4OMf6siMfjfTOdYdT1bxwCdGgWv
8sfMxEDZquIqhVbfZU2c76U=
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6etDj6Auj0jTuS159hUsWMQ=
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Mailing Address: 4676 Admiralty Way, Suite 520  
Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King  
E-Mail: gordon.king@simulalabs.com
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Mailing Address: 2215 SE 39th Ave, Portland OR 97214 USA

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c4f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
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1.293 ironjacamar-jdbc 1.4.20.Final

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1.294 python 3.5.8

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.299 utils 1.1.0

1.300 busybox 1.32.0-r2

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
- kprop/kpropd_rpc.c
- kprop/kproplog.c

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

1.309 wildfly-elytron-sasl 1.11.4.Final

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* /opt/ws_local/PERMITS_SQL/1094804981_1601320522.97/0/wildfly-elytron-sasl-1-11-4-final-sources-jar/org/wildfly/security/sasl/util/ServerNameSaslClientFactory.java
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* /opt/ws_local/PERMITS_SQL/1094804981_1601320522.97/0/wildfly-elytron-sasl-1-11-4-final-sources-jar/org/wildfly/security/sasl/util/PropertiesSaslServerFactory.java
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* /opt/ws_local/PERMITS_SQL/1094807405_1601322120.53/0/wildfly-elytron-sasl-scram-1-11-4-final-sources-jar/org/wildfly/security/sasl/scram/WildFlyElytronSaslScramProvider.java

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* /opt/ws_local/PERMITS_SQL/1094807405_1601322120.53/0/wildfly-elytron-sasl-scram-1-11-4-final-sources-
jar/META-INF/maven/org.wildfly.security/wildfly-elytron-sasl-scram/pom.xml

### 1.315 asm-tree 5.0.4

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/**
 * Constructs a new [Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [Textifier(int)]
 * constructor. Instead, they must use the [Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 ```
* If a subclass calls this constructor.
*/

Found in path(s):
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/util/Textifier.java
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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Handle.java
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/**
 * Constructs a new [ClassNode](#ClassNode). <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the first instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [{@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}]
 * version.
 *
 * @param owner
 *           the owner's class name.
 * @param access
 *           the method's access flags (see {@link Opcodes}).
 * @param name
 *           the method's name.
 * @param desc
 *           the method's descriptor (see {@link Type}).
 * @param mv
 *           the method visitor to which this adapter delegates calls. May
 *           be <tt>null</tt>.
 * @throws IllegalStateException
 *           If a subclass calls this constructor.
 */

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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this</i> constructor. Instead, they must use the
 * {@link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String[,])}
 * version.
 * @param mv
 *      the <code>MethodVisitor</code> to send the resulting inlined
 *      method code to (use <code>null</code> for none).
 * @param access
 *      the method's access flags (see {@link Opcodes}). This
 *      parameter also indicates if the method is synthetic and/or
 *      deprecated.
 * @param name
 *      the method's name.
 * @param desc
 *      the method's descriptor (see {@link Type}).
 * @param signature
 *      the method's signature. May be <tt>null</tt>
 * @param exceptions
 *      the internal names of the method's exception classes (see
 *      {@link Type#getInternalName() getInternalName()}). May be
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 * @throws IllegalStateException
 *      If a subclass calls this constructor.
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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
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* `@link #GeneratorAdapter(int, MethodVisitor, int, String, String)`
* version.
*
* `* @param mv` 
* the method visitor to which this adapter delegates calls.
* `* @param access` 
* the method's access flags (see `@link Opcodes`).
* `* @param name` 
* the method's name.
* `* @param desc` 
* the method's descriptor (see `@link Type Type`).
* `* @throws IllegalStateException` 
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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Roberto De Ioris, Unbit, <roberto@unbit.it>
Riccardo Magliocchetti
Yann Malet, Lincoln Loop
Simon Litchfield
Masahiro Honma, <hiratar@cpan.org>
ukasz Wrblewski <admin@nri.pl>
Giacomo Bagnoli, Asidev
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* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-jar/org/apache/commons/lang/time/DateFormatUtils.java
* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-jar/org/apache/commons/lang/exception/NestableRuntimeException.java
* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-jar/org/apache/commons/lang/builder/ToStringStyle.java
* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-jar/org/apache/commons/lang/math/LongRange.java
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* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-jar/org/apache/commons/lang/RandomStringUtils.java
* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-jar/org/apache/commons/lang/StringUtil.java
* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-jar/org/apache/commons/lang/builder/EqualsBuilder.java
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* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-jar/org/apache/commons/lang/Entities.java
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* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-jar/org/apache/commons/lang/ObjectUtils.java
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* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-jar/org/apache/commons/lang/math/JVMRandom.java

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* /opt/cola/permits/1137117148_1614015975.39/0/commons-lang-2-2-sources-3-
jar/org/apache/commons/lang/text/StrTokenizer.java

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Table 4.4.2: Design of the Facility
mit, performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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VIM REFERENCE MANUAL   by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.
The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

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II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

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2) The modified Vim must be distributed in one of the following five ways:
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   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
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or someone who you distributed the modified Vim to asks you (in
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available to him.
- You clearly describe in the distribution how to contact you. This
contact information must remain valid for at least three years
after last distributing the corresponding modified Vim, or as long
as possible.
  e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or
any later version.
3) A message must be added, at least in the output of the "\version"
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under 2)e) adding the message is only required for as far as this does
not conflict with the license used for the changes.
4) The contact information as required under 2)a) and 2)d) must not be
removed or changed, except that the person himself can make
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If the number of changes is small (e.g., a modified Makefile) e-mailing a
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<maintainer@vim.org>

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
  file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
  [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

Kibaale Children's Centre* kcc* Kibaale* charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.
Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*
Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.  Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt. For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
   Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
   If that doesn't work:
   Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:
/*
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                     (XPM - X PixMap format version 2 & 3)
                     Internet: lehors@sophia.inria.fr
Surface Mail:       Arnaud LE HORS, INRIA - Sophia Antipolis,
                     2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:        (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

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" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001

" quit when a syntax file was already loaded
if exists(":current_syntax")
    finish
endif

" Product specification files are case sensitive
syn case match
Some of the attributes covered by attUnquotString and attQuotString:
- architecture category_tag control_directory copyright
- create_date description directory file_permissions install_source
- install_type location machine_type mod_date number os_name os_release
- os_version pose_as_os_name pose_as_os_release readme revision
- share_link title vendor_tag

These regions are defined in attempt to do syntax checking for some
of the attributes.

These regions are defined in attempt to do syntax checking for some
of the attributes.

These regions are defined in attempt to do syntax checking for some
of the attributes.
Define the default highlighting.
Only when an item doesn’t have highlighting yet

<table>
<thead>
<tr>
<th>Link Type</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>psfObject</td>
<td>Statement</td>
</tr>
<tr>
<td>psfAttrib</td>
<td>Type</td>
</tr>
<tr>
<td>psfQuotString</td>
<td>String</td>
</tr>
<tr>
<td>psfObjTag</td>
<td>Identifier</td>
</tr>
<tr>
<td>psfAttAbbrev</td>
<td>PreProc</td>
</tr>
<tr>
<td>psfObjTags</td>
<td>Identifier</td>
</tr>
<tr>
<td>psfComment</td>
<td>Comment</td>
</tr>
</tbody>
</table>

Long descriptions and copyrights confuse the syntax highlighting, so
force vim to backup at least 100 lines before the top visible line
looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
1.330 wildfly-request-controller 11.1.1.Final

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/**
 * <p>The identifier of a client registered within the OAuth2 Authorization Server that will be used to
 authenticate this server
 * in order to validate bearer tokens arriving to this server.
 *
 * <p>Please note that the client will be usually a confidential client with both an identifier and secret
 configured in order to
 * authenticate against the token introspection endpoint. In this case, the endpoint must support HTTP BASIC
 authentication using
 * the client credentials (both id and secret).
* @param clientId the identifier of a client within the OAUth2 Authorization Server
* @return this instance
*/

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1.348 coreapi 1.4.20.Final
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1.350 wildfly-domain-http-error-context

11.1.1.Final

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* /opt/cola/permits/1136449524_1613767508.39/0/owasp-java-html-sanitizer-r239-sources-3-
jar/org/owasp/html/Handler.java
* /opt/cola/permits/1136449524_1613767508.39/0/owasp-java-html-sanitizer-r239-sources-3-
jar/org/owasp/html/ElementAndAttributePolicies.java
* /opt/cola/permits/1136449524_1613767508.39/0/owasp-java-html-sanitizer-r239-sources-3-
jar/org/owasp/html/ElementAndAttributePolicyBasedSanitizerPolicy.java
* /opt/cola/permits/1136449524_1613767508.39/0/owasp-java-html-sanitizer-r239-sources-3-
jar/org/owasp/html/StandardUrlAttributePolicy.java
* /opt/cola/permits/1136449524_1613767508.39/0/owasp-java-html-sanitizer-r239-sources-3-
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* /opt/ cola/permits/1136449524_1613767508.39/0/owasp-java-html-sanitizer-r239-sources-3-
jar/org/owasp/html/TagBalancingHtmlStreamEventReceiver.java
* /opt/cola/permits/1136449524_1613767508.39/0/owasp-java-html-sanitizer-r239-sources-3-
jar/org/owasp/html/examples/EbayPolicyExample.java

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1.363 opensaml-security-api 3.3.0

1.364 jbcrypt 0.4

1.365 shadow 4.6

1.366 centos-release 7 8.2003.0.el7.centos
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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:

The Red Hat developers, without whom CentOS would look very different

Akemi Matsuno-Yagi
Alain Reguera Delgado
Alan Bartlett
Andreas Thienemann
Anssi Johansson
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1.372 pcre 8.32 17.el7

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----------

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THE BASIC LIBRARY FUNCTIONS
-------------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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PCRE JUST-IN-TIME COMPILATION SUPPORT
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Written by: Zoltan Herczeg
Email local part: hzmester
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THE C++ WRAPPER FUNCTIONS
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c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla’s root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla’s root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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`Certifi` is a carefully curated collection of Root Certificates for validating the trustworthiness of SSL certificates while verifying the identity of TLS hosts. It has been extracted from the `Requests` project.

Installation
-------------

``certifi`` is available on PyPI. Simply install it with `pip`:

```bash
$ pip install certifi
```

Usage
-----

To reference the installed certificate authority (CA) bundle, you can use the built-in function:

```python
>>> import certifi

>>> certifi.where()
'/usr/local/lib/python2.7/site-packages/certifi/cacert.pem'
```

Enjoy!

1024-bit Root Certificates
~~~~~~~~~~~~~~~~~~~~~~~~~~

Browsers and certificate authorities have concluded that 1024-bit keys are unacceptably weak for certificates, particularly root certificates. For this reason, Mozilla has removed any weak (i.e. 1024-bit key) certificate from its bundle, replacing it with an equivalent strong (i.e. 2048-bit or greater key) certificate from the same CA. Because Mozilla removed these certificates from its bundle, ``certifi`` removed them as well.

In previous versions, ``certifi`` provided the `certifi.old_where()` function to intentionally re-add the 1024-bit roots back into your bundle. This was not recommended in production and therefore was removed. To assist in migrating old...
code, the function `certifi.old_where()` continues to exist as an alias of `certifi.where()`. Please update your code to use `certifi.where()` instead. `certifi.old_where()` will be removed in 2018.

.. _`Requests`: http://docs.python-requests.org/en/latest/

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Classifier: Programming Language :: Python :: 3
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1.377 undertow-servlet 2.1.0.Final

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/api/SecurityRoleRef.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/core/SecurityActions.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/api/ClassIntrospecter.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/api/SecurityConstraint.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/api/InstanceHandle.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/attribute/ServletContextAttribute.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/websockets/ServletWebSocketHttpExchange.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/spec/HttpServletResponseImpl.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/api/FilterInfo.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/api/ThreadSetupAction.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/spec/ServletOutputStreamImpl.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/api/LoggingExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/api/ServletSessionConfig.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/util/SavedRequest.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/ServletExtension.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/handlers/SecurityActions.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/spec/ServletContextImpl.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/UndertowServletLogger.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/Servlets.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/api/AuthMethodConfig.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/compat/rewrite/RewriteMap.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/compat/rewrite/RewriteConfig.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
jar/io/undertow/servlet/util/InMemorySessionPersistence.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-
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*/
/**
* Servlet specific extension to [@link SinglePortConfidentialityHandler]
* @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
*/
/**
* Use the `HttpServerExchange` supplied to check if this request is already 'sufficiently' confidential.
*
* Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual SSLSession.
*
* @param exchange - The `@link HttpServerExchange` for the request being processed.
* @return true if the request is 'sufficiently' confidential, false otherwise.
*/

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protected String noConfidentialPortAvailable$str() {
  return "UT010053: No confidential port is available to redirect the current request.";
}
public final IllegalStateException noConfidentialPortAvailable() {
  final IllegalStateException result = new IllegalStateException(String.format(getLoggingLocale(),
                  noConfidentialPortAvailable$str()));
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-jar/io/undertow/servlet/api/SecurityActions.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-api/securityActions.java
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* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-2-1-0-final-sources-jar/io/undertow/servlet/api/securityActions.java
* /opt/ws_local/PERMITS_SQL/1094806789_1601320326.24/0/undertow-servlet-api/securityActions.java

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Found in path(s):

**1.378 sudo 1.8.16 0ubuntu1.8**

**1.378.1 Available under license:**
The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete— if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pieté
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stéphane
ek, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fry singer, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stéphane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieuwma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Chernoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frederic
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1.379 wheel 0.35.1

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1.380 file 5.25 2ubuntu1.2

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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/ParserInterpreter.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/ParseTreePatternMatcher.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4.5-1-sources.jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java

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jar/org/antlr/v4/runtime/ATNSerializer.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/PlusLoopbackState.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/TokenStream.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/BufferedTokenStream.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/tree/ErrorNode.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/LoopEndState.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/misc/Array2DHashSet.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/misc/ObjectEqualityComparator.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/StarBlockStartState.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/misc/IntervalSet.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/misc/Pair.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-
jar/org/antlr/v4/runtime/dfa/DFAState.java
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Open-vm-tools v10.1.5

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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Other contributors include:
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Tollef Fog Heen <tfheen@debian.org>
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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  /org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForFloat.java
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  /org/hibernate/validator/internal/constraintvalidators/bv/time/AbstractJavaTimeValidator.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar
  /org/hibernate/validator/internal/metadata/aggregated/AbstractConstraintMetaData.java
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  /org/hibernate/validator/constraintvalidators/RegexpURLValidator.java
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  /org/hibernate/validator/cfg/defs/DecimalMinDef.java
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  /org/hibernate/validator/internal/metadata/aggregated/AbstractConstraintMetaData.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar
  /org/hibernate/validator/constraintvalidators/RegexpURLValidator.java
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2.jar
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 */

**
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* </p>
* Script expressions can be written in any scripting or expression language,
* for which a `<a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>`
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [<link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
* will be used as parameter names.

* </p>
* </p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:

* </p>
* </pre>
* [@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) [ ... ]
* ]
* </pre>
* </p>
* Can be specified on any method or constructor.

* </p>
* 

* @author Gunnar Morling
*/

Found in path(s):
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/orig/hibernate/validator/constraints/ParameterScriptAssert.java

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* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/META-INF/validation-mapping-2.0.xsd
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/META-INF/validation-mapping-1.1.xsd
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/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 *
 * @param executable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
* /opt/cola/permits/1110738895_1606847116.99/0/hibernate-validator-6-0-20-final-sources-2-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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1.401 jackson-datatype-jdk8 2.9.10

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/**
 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
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 * version.
 */

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/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
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/** *
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this constructor</i>. Instead, they must use the {
 * {[@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 * *
 * @param owner the owner's class name.
 * @param access the method's access flags (see {@link Opcodes}).
 * @param name the method's name.
 * @param desc the method's descriptor (see {@link Type}).
 * @param mv the method visitor to which this adapter delegates calls. May be null.
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/**
* Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
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* [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
*
* @param mv the method visitor to which this adapter delegates calls.
* @param access the method’s access flags (see [@link Opcodes]).
* @param name the method’s name.
* @param desc the method’s descriptor (see [@link Type Type]).
*/

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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])\n * version.
 *
 * @param mv the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access the method's access flags (see @link Opcodes). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name the method's name.
 * @param desc the method's descriptor (see @link Type)).
 * @param signature the method's signature. May be <tt>null</tt>.
 * @param exceptions the internal names of the method's exception classes
 * (see @link Type#getInternalName() getInternalName{}). May be
 * <tt>null</tt>.
 */

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* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
No license file was found, but licenses were detected in source scan.

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*

Found in path(s):
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
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* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135953346_1613641379.03/0/asm-4-0-sources-1-jar/org/objectweb/asm/util/TraceFieldVisitor.java

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>  
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>  
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZhBFXQB6/>  
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections
* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vtkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire
* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>  
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration
* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ``HTTPResponse.stream()``
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`
  * Creation of ``HTTPConnectionPool.ResponseCls``

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@gmail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.
* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <6yglez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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addHostControllerJavaOptions(final String... args) { public DomainCommandBuilder
addHostControllerJavaOptions(final Iterable<String> args) { public DomainCommandBuilder
setHostControllerJavaOptions(final String... args) { public DomainCommandBuilder
setHostControllerJavaOptions(final Iterable<String> args) { public DomainCommandBuilder
addProcessControllerJavaOption(final String arg) { public DomainCommandBuilder
addProcessControllerJavaOptions(final String... args) { public DomainCommandBuilder
addProcessControllerJavaOptions(final Iterable<String> args) { public DomainCommandBuilder
setProcessControllerJavaOptions(final String... args) { public DomainCommandBuilder
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setServerJavaHome(final String javaHome) { public DomainCommandBuilder
setServerJavaHome(final Path javaHome) {

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   (For example, a function in a library to compute square roots has
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1.433 cyrus-sasl 2.1.26

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 * Tim Martin
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 * Rob Siemborski
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#pragma ident "@(#)mit-sipb-copyright.h 1.5 93/02/04 SMI"

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 * Tim Martin
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1.434 listenablefuture 1.0

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* /opt/ws_local/PERMITS_SQL/1012932365_1591900514.54/0/listenablefuture-1-0-sources-
  jar/com/google/common/util/concurrent/ListenableFuture.java

1.435 dnsmasq 2.79

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# NOTE: Building the i18n targets requires GNU-make

# Variables you may well want to override.
PREFIX = /usr/local
BINDIR = $(PREFIX)/sbin
MANDIR = $(PREFIX)/share/man
LOCALEDIR = $(PREFIX)/share/locale
BUILDDIR = $(SRC)
DESTDIR =
CFLAGS = -Wall -W -O2
LDFLAGS =
COPTS =
RPM_OPT_FLAGS =
LIBS =

#############################################################################
# Variables you might want to override.

PKG_CONFIG = pkg-config
INSTALL = install
MSGMERGE = msgmerge
MSGFMT = msgfmt
XGETTEXT = xgettext

SRC = src
PO = po
MAN = man

#############################################################################
# pmake way. (NB no spaces to keep gmake 3.82 happy)

top!=pwd
# GNU make way.

top?=$(CURDIR)

dbus_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --cflags dbus-1`
dbus_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DBUS $(PKG_CONFIG) --libs dbus-1`

idn_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --cflags libidn`

idn_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_IDN $(PKG_CONFIG) --libs libidn`

idn2_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --cflags libidn2`

idn2_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LIBIDN2 $(PKG_CONFIG) --libs libidn2`

tc_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --cflags libnetfilter_contrack`

tc_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_CONNTRACK $(PKG_CONFIG) --libs libnetfilter_contrack`

lua_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --cflags lua5.2`

lua_libs = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_LUASCRIPT $(PKG_CONFIG) --libs lua5.2`

nettle_cflags = `echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --cflags nettle hogweed`
nettle_libs = 'echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC $(PKG_CONFIG) --libs nettle hogweed'
gmp_libs = 'echo $(COPTS) | $(top)/bld/pkg-wrapper HAVE_DNSSEC NO_GMP --copy -lgmp'
sunos_libs = 'if uname | grep SunOS >/dev/null 2>&1; then echo -lsocket -lnsl -lposix4; fi'
version = -DVERSION=""$(top)/bld/get-version $(top)""

sum?=$(shell $(CC) -DDNSMASQ_COMPILE_OPTS $(COPTS) -E $(top)/$(SRC)/dnsmasq.h | ( md5sum 2>/dev/null || md5 ) | cut -f 1 -d ' ')
sum!=$(CC) -DDNSMASQ_COMPILE_OPTS $(COPTS) -E $(top)/$(SRC)/dnsmasq.h | ( md5sum 2>/dev/null || md5 ) | cut -f 1 -d ' '
copts_conf = .copts_$($sum)

objs = cache.o rfc1035.o util.o option.o forward.o network.o
      dnsmasq.o dhcp.o lease.o rfc2131.o netlink.o dbus.o bpf.o
      helper.o tftp.o log.o contrack.o dhcp6.o rfc3315.o
      dhcp-common.o outpacket.o radv.o slaac.o auth.o ipset.o
      domain.o dnssec.o blockdata.o tables.o loop.o inotify.o
      poll.o rrfilter.o edns0.o arp.o crypto.o

hdrrs = dnsmasq.h config.h dhcp-protocol.h dhcp6-protocol.h

all : $(BUILDDIR)
@cd $(BUILDDIR) && $(MAKE)

top="$(top)"
build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)"
build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)"

mostly_clean :
rm -f $(BUILDDIR)/*.mo $(BUILDDIR)/*.pot
rm -f $(BUILDDIR)/.copts_* $(BUILDDIR)/dnsmasq.a $(BUILDDIR)/dnsmasq

clean : mostly_clean
rm -f $(BUILDDIR)/dnsmasq_baseline
rm -f core */core
rm -f ~ contrib/*/*~ */*~

install : all install-common

install-common :
$(INSTALL) -d $(DESTDIR)/$(BINDIR) -d $(DESTDIR)/$(MANDIR)/man8
$(INSTALL) -m 644 $(MAN)/dnsmasq.8 $(DESTDIR)/$(MANDIR)/man8
$(INSTALL) -m 755 $(BUILDDIR)/dnsmasq $(DESTDIR)/$(BINDIR)

all-i18n : $(BUILDDIR)
@cd $(BUILDDIR) && $(MAKE)

top="$(top)"
i18n=-DLOCALEDIR=""$(LOCALEDIR)""
build_cflags="$(version) $(dbus_cflags) $(idn2_cflags) $(idn_cflags) $(ct_cflags) $(lua_cflags) $(nettle_cflags)" \ 
build_libs="$(dbus_libs) $(idn2_libs) $(idn_libs) $(ct_libs) $(lua_libs) $(sunos_libs) $(nettle_libs) $(gmp_libs)" \ 
-f $(top)/Makefile dnsmasq
for f in `cd $PO; echo *.po`; do \ 
cd $(top) && cd $(BUILDDIR) && $(MAKE) top="$(top)" -f $(top)/Makefile $$f%.po.mo; \ 
done

install-i18n : all-i18n install-common
 cd $(BUILDDIR); $(top)/bld/install-mo $(DESTDIR)$(LOCALEDIR) $(INSTALL)
 cd $(MAN); ../bld/install-man $(DESTDIR)$(MANDIR) $(INSTALL)

merge :
 @cd $(BUILDDIR) && $(MAKE) top="$(top)" -f $(top)/Makefile dnsmasq.pot
 for f in `cd $PO; echo *.po`; do \ 
echo -n msgmerge $(PO)/$$f && $(MSGMERGE) --no-wrap -U $(PO)/$$f $(BUILDDIR)/dnsmasq.pot; \ 
done

# Canonicalise .po file.
%.po :
 @cd $(BUILDDIR) && $(MAKE) -f $(top)/Makefile dnsmasq.pot
 mv $(PO)/$*.po $(PO)/$*.po.orig && $(MSGMERGE) --no-wrap -U $(PO)/$*.po.orig $(BUILDDIR)/dnsmasq.pot; \ 
 >$(PO)/$*.po;

$(BUILDDIR):
 mkdir -p $(BUILDDIR)

# rules below are helpers for size tracking

baseline : mostly_clean all
 @cd $(BUILDDIR) && \ 
 mv dnsmasq dnsmasq_baseline

bloatcheck : $(BUILDDIR)/dnsmasq_baseline mostly_clean all
 @cd $(BUILDDIR) && \ 
 $(top)/bld/bloat-o-meter dnsmasqBaseline dnsmasq; \ 
 size dnsmasqBaseline dnsmasq

# rules below are targets in recursive makes with cwd=$(BUILDDIR)

$(copts_conf): $(hdrs)
 @rm -f *.o .copts_* 
 @touch $@

$(objs:.o=.c) $(hdrs):
 ln -s $(top)/$(SRC)/$@.

$(objs): $(copts_conf) $(hdrs)
$(CC) $(CFLAGS) $(COPTS) $(i18n) $(build_cflags) $(RPM_OPT_FLAGS) -c $<

dnsmasq : $(objs)
$(CC) $(LDFLAGS) -o $@ $(objs) $(build_libs) $(LIBS)

dnsmasq.pot : $(objs:.o=.c) $(hdrs)
$(XGETTEXT) -d dnsmasq --foreign-user --omit-header --keyword=_ -o $@ -i $(objs:.o=.c)

%.mo : $(top)/$(PO)/%.po dnsmasq.pot
$(MSGMERGE) -o - $(top)/$(PO)/$*.po dnsmasq.pot | $(MSGFMT) -o $*.mo -

.PHONY : all clean mostly_clean install install-common all-i18n install-i18n merge baseline bloatcheck
Q: Why does dnsmasq open UDP ports >1024 as well as port 53.
Is this a security problem/trojan/backdoor?

A: The high ports that dnsmasq opens are for replies from the upstream nameserver(s). Queries from dnsmasq to upstream nameservers are sent from these ports and replies received to them. The reason for doing this is that most firewall setups block incoming packets _to_ port 53, in order to stop DNS queries from the outside world. If dnsmasq sent its queries from port 53 the replies would be _to_ port 53 and get blocked.

This is not a security hole since dnsmasq will only accept replies to that port: queries are dropped. The replies must be to outstanding queries which dnsmasq has forwarded, otherwise they are dropped too.

Addendum: dnsmasq now has the option "query-port" (-Q), which allows you to specify the UDP port to be used for this purpose. If not specified, the operating system will select an available port number just as it did before.

Second addendum: following the discovery of a security flaw in the DNS protocol, dnsmasq from version 2.43 has changed behavior. It now uses a new, randomly selected, port for each query. The old default behaviour (use one port allocated by the OS) is available by setting --query-port=0, and setting the query port to a positive value still works. You should think hard and know what you are doing before using either of these options.

Q: Why doesn't dnsmasq support DNS queries over TCP? Don't the RFC's specify that?

A: Update: from version 2.10, it does. There are a few limitations:
   data obtained via TCP is not cached, and source-address or query-port specifications are ignored for TCP.

Q: When I send SIGUSR1 to dump the contents of the cache, some entries have
A: They are negative entries: that's what the N flag means. Dnsmasq asked an upstream nameserver to resolve that address and it replied "doesn't exist, and won't exist for <n> hours" so dnsmasq saved that information so that if _it_ gets asked the same question it can answer directly without having to go back to the upstream server again. The strange repeated domains result from the way resolvers search short names. See "man resolv.conf" for details.

Q: Will dnsmasq compile/run on non-Linux systems?

A: Yes, there is explicit support for *BSD and MacOS X and Solaris. There are start-up scripts for MacOS X Tiger and Panther in /contrib. Dnsmasq will link with uclibc to provide small binaries suitable for use in embedded systems such as routers. (There's special code to support machines with flash filesystems and no battery-backed RTC.)

If you encounter make errors with *BSD, try installing gmake from ports and building dnsmasq with "make MAKE=gmake"

For other systems, try altering the settings in config.h.

Q: My company's nameserver knows about some names which aren't in the public DNS. Even though I put it first in /etc/resolv.conf, it doesn't work: dnsmasq seems not to use the nameservers in the order given. What am I doing wrong?

A: By default, dnsmasq treats all the nameservers it knows about as equal: it picks the one to use using an algorithm designed to avoid nameservers which aren't responding. To make dnsmasq use the servers in order, give it the -o flag. If you want some queries sent to a special server, think about using the -S flag to give the IP address of that server, and telling dnsmasq exactly which domains to use the server for.

Q: OK, I've got queries to a private nameserver working, now how about reverse queries for a range of IP addresses?

A: Use the standard DNS convention of <reversed address>.in-addr.arpa. For instance to send reverse queries on the range 192.168.0.0 to 192.168.0.255 to a nameserver at 10.0.0.1 do server=/0.168.192.in-addr.arpa/10.0.0.1

Note that the "bogus-priv" option take priority over this option, so the above will not work when the bogus-priv option is set.

Q: Dnsmasq fails to start with an error like this: "dnsmasq: bind
failed: Cannot assign requested address”. What's the problem?

A: This has been seen when a system is bringing up a PPP interface at boot time: by the time dnsmasq start the interface has been created, but not brought up and assigned an address. The easiest solution is to use --interface flags to specify which interfaces dnsmasq should listen on. Since you are unlikely to want dnsmasq to listen on a PPP interface and offer DNS service to the world, the problem is solved.

Q: I'm running on BSD and dnsmasq won't accept long options on the command line.

A: Dnsmasq when built on some BSD systems doesn't use GNU getopt by default. You can either just use the single-letter options or change config.h and the Makefile to use getopt-long. Note that options in /etc/dnsmasq.conf must always be the long form, on all platforms.

Q: Names on the internet are working fine, but looking up local names from /etc/hosts or DHCP doesn't seem to work.

A: Resolver code sometime does strange things when given names without any dots in. Win2k and WinXP may not use the DNS at all and just try and look up the name using WINS. On unix look at "options ndots:" in "man resolv.conf" for details on this topic. Testing lookups using "nslookup" or "dig" will work, but then attempting to run "ping" will get a lookup failure, appending a dot to the end of the hostname will fix things. (ie "ping myhost" fails, but "ping myhost." works. The solution is to make sure that all your hosts have a domain set ("domain" in resolv.conf, or set a domain in your DHCP server, see below for Windows XP and Mac OS X). Any domain will do, but "localnet" is traditional. Now when you resolve "myhost" the resolver will attempt to look up "myhost.localnet" so you need to have dnsmasq reply to that name. The way to do that is to include the domain in each name on /etc/hosts and/or to use the --expand-hosts and --domain options.

Q: How do I set the DNS domain in Windows XP or MacOS X (ref: previous question)?

A: for XP, Control Panel > Network Connections > { Connection to gateway / DNS } > Properties > { Highlight TCP/IP } > Properties > Advanced > DNS Tab > DNS suffix for this connection:

A: for OS X, System Preferences > Network > {Connection to gateway / DNS } > Search domains:
Q: Can I get dnsmasq to save the contents of its cache to disk when I shut my machine down and re-load when it starts again?

A: No, that facility is not provided. Very few names in the DNS have their time-to-live set for longer than a few hours so most of the cache entries would have expired after a shutdown. For longer-lived names it's much cheaper to just reload them from the upstream server. Note that dnsmasq is not shut down between PPP sessions so go off-line and then on-line again will not lose the contents of the cache.

Q: Who are Verisign, what do they have to do with the bogus-nxdomain option in dnsmasq and why should I worry about it?

A: [note: this was written in September 2003, things may well change.] Verisign run the .com and .net top-level-domains. They have just changed the configuration of their servers so that unknown .com and .net domains, instead of returning an error code NXDOMAIN, (no such domain) return the address of a host at Verisign which runs a web server showing a search page. Most right-thinking people regard this new behaviour as broken :-). You can test to see if you are suffering Verisign brokenness by run a command like

host jlsdajk dalld.com

If you get "jlsdajk dalld.com" does not exist, then all is fine, if host returns an IP address, then the DNS is broken. (Try a few different unlikely domains, just in case you picked a weird one which really _is_ registered.)

Assuming that your DNS is broken, and you want to fix it, simply note the IP address being returned and pass it to dnsmasq using the --bogus-nxdomain flag. Dnsmasq will check for results returning that address and substitute an NXDOMAIN instead.

As of writing, the IP address in question for the .com and .net domains is 64.94.110.11. Various other, less prominent, registries pull the same stunt; there is a list of them all, and the addresses to block, at http://winware.org/bogus-domains.txt

Q: This new DHCP server is well and good, but it doesn't work for me. What's the problem?

A: There are a couple of configuration gotchas which have been encountered by people moving from the ISC dhcpd to the dnsmasq integrated DHCP daemon. Both are related to differences in in the way the two daemons bypass the IP stack to do "ground up" IP configuration and can lead to the dnsmasq daemon failing
whilst the ISC one works.

The first thing to check is the broadcast address set for the ethernet interface. This is normally the address on the connected network with all ones in the host part. For instance if the address of the ethernet interface is 192.168.55.7 and the netmask is 255.255.255.0 then the broadcast address should be 192.168.55.255. Having a broadcast address which is not on the network to which the interface is connected kills things stone dead.

The second potential problem relates to firewall rules: since the ISC daemon in some configurations bypasses the kernel firewall rules entirely, the ability to run the ISC daemon does not indicate that the current configuration is OK for the dnsmasq daemon. For the dnsmasq daemon to operate it's vital that UDP packets to and from ports 67 and 68 and broadcast packets with source address 0.0.0.0 and destination address 255.255.255.255 are not dropped by iptables/ipchains.

Q: I'm running Debian, and my machines get an address fine with DHCP, but their names are not appearing in the DNS.

A: By default, none of the DHCP clients send the host-name when asking for a lease. For most of the clients, you can set the host-name to send with the "hostname" keyword in /etc/network/interfaces. (See "man interfaces" for details.) That doesn't work for dhclient, were you have to add something like "send host-name daisy" to /etc/dhclient.conf [Update: the latest dhcpcd packages _do_ send the hostname by default.

Q: I'm network booting my machines, and trying to give them static DHCP-assigned addresses. The machine gets its correct address whilst booting, but then the OS starts and it seems to get allocated a different address.

A: What is happening is this: The boot process sends a DHCP request and gets allocated the static address corresponding to its MAC address. The boot loader does not send a client-id. Then the OS starts and repeats the DHCP process, but it it does send a client-id. Dnsmasq cannot assume that the two requests are from the same machine (since the client ID's don't match) and even though the MAC address has a static allocation, that address is still in use by the first incarnation of the machine (the one from the boot, without a client ID.) dnsmasq therefore has to give the machine a dynamic address from its pool. There are three ways to solve this: (1) persuade your DHCP client not to send a client ID, or (2) set up the static assignment to the client ID, not the MAC address. The
default client-id will be 01:<MAC address>, so change the dhcp-host line from "dhcp-host=11:22:33:44:55:66,1.2.3.4" to "dhcp-host=id:01:11:22:33:44:55:66,1.2.3.4" or (3) tell dnsmasq to ignore client IDs for a particular MAC address, like this: dhcp-host=11:22:33:44:55:66,id:*

Q: What network types are supported by the DHCP server?

A: Ethernet (and 802.11 wireless) are supported on all platforms. On Linux all network types (including FireWire) are supported.

Q: What are these strange "bind-interface" and "bind-dynamic" options?

A: Dnsmasq from v2.63 can operate in one of three different "networking modes". This is unfortunate as it requires users configuring dnsmasq to take into account some rather bizarre constraints and select the mode which best fits the requirements of a particular installation. The origin of these are deficiencies in the Unix networking model and APIs and each mode has different advantages and problems. Just to add to the confusion, not all modes are available on all platforms (due to lack of supporting network APIs). To further add to the confusion, the rules for the DHCP subsystem on dnsmasq are different to the rules for the DNS and TFTP subsystems.

The three modes are "wildcard", "bind-interfaces" and "bind-dynamic".

In "wildcard" mode, dnsmasq binds the wildcard IP address (0.0.0.0 or ::). This allows it to receive all the packets sent to the server on the relevant port. Access control ( --interface, --except-interface, --listen-address, etc) is implemented by dnsmasq: it queries the kernel to determine the interface on which a packet was received and the address to which it was sent, and applies the configured rules. Wildcard mode is the default if neither of the other modes are specified.

In "bind-interfaces" mode, dnsmasq runs through all the network interfaces available when it starts, finds the set of IP addresses on those interfaces, filters that set using the access control configuration, and then binds the set of IP addresses. Only packets sent to the allowed addresses are delivered by the kernel to dnsmasq.

In "bind-dynamic" mode, access control filtering is done both by binding individual IP addresses, as for bind-interfaces, and by inspecting individual packets on arrival as for wildcard mode. In addition, dnsmasq notices when new interfaces appear or new addresses appear on existing interfaces, and the resulting IP addresses are bound automatically without having to restart dnsmasq.
The mode chosen has four different effects: co-existence with other servers, semantics of --interface access control, effect of new interfaces, and legality of --interface specifications for non-existent interfaces. We will deal with these in order.

A dnsmasq instance running in wildcard mode precludes a machine from running a second instance of dnsmasq or any other DNS, TFTP or DHCP server. Attempts to do so will fail with an "address in use" error. Dnsmasq running in --bind-interfaces or bind-dynamic mode allow other instances of dnsmasq or other servers, as long as no two servers are configured to listen on the same interface address.

The semantics of --interface varies subtly between wildcard or bind-dynamic mode and bind-interfaces mode. The situation where this matters is a request which arrives via one interface (A), but with a destination address of a second interface (B) and when dnsmasq is configured to listen only on B. In wildcard or bind-dynamic mode, such a request will be ignored, in bind-interfaces mode, it will be accepted.

The creation of new network interfaces after dnsmasq starts is ignored by dnsmasq when in --bind-interfaces mode. In wildcard or bind-dynamic mode, such interfaces are handled normally.

An --interface specification for a non-existent interface is a fatal error at start-up when in --bind-interfaces mode, by just generates a warning in wildcard or bind-dynamic mode.

Q: Why doesn't Kerberos work/why can't I get sensible answers to queries for SRV records.

A: Probably because you have the "filterwin2k" option set. Note that it was on by default in example configuration files included in versions before 2.12, so you might have it set on without realising.

Q: Can I get email notification when a new version of dnsmasq is released?

A: Yes, new releases of dnsmasq are always announced through freshmeat.net, and they allow you to subscribe to email alerts when new versions of particular projects are released. New releases are also announced in the dnsmasq-discuss mailing list, subscribe at http://lists.thekelleys.org.uk/mailman/listinfo/dnsmasq-discuss

Q: What does the dhcp-authoritative option do?

A: The DHCP spec says that when a DHCP server receives a renewal request
from a client it has no knowledge of, it should just ignore it. This is because it's supported to have more than one DHCP server on a network, and another DHCP server may be dealing with the client. This has the unfortunate effect that when _no_ DHCP replies to the client, it takes some time for the client to time-out and start to get a new lease. Setting this option makes dnsmasq violate the standard to the extent that it will send a NAK reply to the client, causing it to immediately start to get a new lease. This improves behaviour when machines move networks, and in the case that the DHCP lease database is lost. As long as there are not more than one DHCP server on the network, it's safe to enable the option.

Q: Why does my Gentoo box pause for a minute before getting a new lease?

A: Because when a Gentoo box shuts down, it releases its lease with the server but remembers it on the client; this seems to be a Gentoo-specific patch to dhcpcd. On restart it tries to renew a lease which is long gone, as far as dnsmasq is concerned, and dnsmasq ignores it until it times out and restarts the process. To fix this, set the dhcp-authoritative flag in dnsmasq.

Q: My laptop has two network interfaces, a wired one and a wireless one. I never use both interfaces at the same time, and I'd like the same IP and configuration to be used irrespective of which interface is in use. How can I do that?

A: By default, the identity of a machine is determined by using the MAC address, which is associated with interface hardware. Once an IP is bound to the MAC address of one interface, it cannot be associated with another MAC address until after the DHCP lease expires. The solution to this is to use a client-id as the machine identity rather than the MAC address. If you arrange for the same client-id to sent when either interface is in use, the DHCP server will recognise the same machine, and use the same address. The method for setting the client-id varies with DHCP client software, dhcpcd uses the "-I" flag. Windows uses a registry setting, see http://www.jsiinc.com/SUBF/TIP2800/rh2845.htm

Addendum:
From version 2.46, dnsmasq has a solution to this which doesn't involve setting client-IDs. It's possible to put more than one MAC address in a --dhcp-host configuration. This tells dnsmasq that it should use the specified IP for any of the specified MAC addresses, and furthermore it gives dnsmasq permission to summarily abandon a lease to one of the MAC addresses if another one comes along. Note that this will work fine only as longer as only one interface is up at any time. There is no way for dnsmasq to enforce this
constraint: if you configure multiple MAC addresses and violate this rule, bad things will happen.

Addendum-II: The link above is dead, the former contents of the link are:

How can I keep the same DHCP client reservation, if the MAC address changes?

When you reserve an IP address for a DHCP client, you provide the MAC address of the client's NIC.

It is possible to use a custom identifier, which is sent as option 61 in the client's DHCP Discover and Request packet.

The DhcpClientIdentifier is a REG_DWORD value that is located at:

**Windows NT 4.0 SP2+**

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\<Adapter Name>'X'\Parameters\Tcpip

where <Adapter Name> is the NIC driver name and 'X' is the number of the NIC.

**Windows 2000**

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\TcpIp\Parameters\Interfaces\<NIC GUID>

where <NIC GUID> is the GUID of the NIC.

The valid range of data is 0x0 - 0xFFFFFFFF. The custom identifier is send as 4 bytes, 8 hexadecimal character, in groups of 2 hexadecimal characters, with the groups being sent in reverse order. If the custom identifier is less than 8 hexadecimal characters, it is zero padded at the end. Examples:

<table>
<thead>
<tr>
<th>Custom Client Identifier</th>
<th>Client Reservation on DHCP Server</th>
</tr>
</thead>
<tbody>
<tr>
<td>12345678</td>
<td>78563412</td>
</tr>
<tr>
<td>123456</td>
<td>56341200</td>
</tr>
<tr>
<td>1234</td>
<td>34120000</td>
</tr>
<tr>
<td>1234567</td>
<td>67452301</td>
</tr>
<tr>
<td>12345</td>
<td>45230100</td>
</tr>
<tr>
<td>123</td>
<td>23010000</td>
</tr>
<tr>
<td>A18F42</td>
<td>428FA100</td>
</tr>
<tr>
<td>CF432</td>
<td>32F40C00</td>
</tr>
<tr>
<td>C32D1BE</td>
<td>BED1320C</td>
</tr>
</tbody>
</table>
Q: Can dnsmasq do DHCP on IP-alias interfaces?

A: Yes, from version-2.21. The support is only available running under Linux, on a kernel which provides the RT-netlink facility. All 2.4 and 2.6 kernels provide RT-netlink and it's an option in 2.2 kernels.

If a physical interface has more than one IP address or aliases with extra IP addresses, then any dhcp-ranges corresponding to these addresses can be used for address allocation. So if an interface has addresses 192.168.1.0/24 and 192.168.2.0/24 and there are DHCP ranges 192.168.1.100-192.168.1.200 and 192.168.2.100-192.168.2.200 then both ranges would be used for host connected to the physical interface. A more typical use might be to have one of the address-ranges as static-only, and have known hosts allocated addresses on that subnet using dhcp-host options, while anonymous hosts go on the other.

Q: Dnsmasq sometimes logs "nameserver xxx.xxx.xxx.xxx refused to do a recursive query" and DNS stops working. What's going on?

A: Probably the nameserver is an authoritative nameserver for a particular domain, but is not configured to answer general DNS queries for an arbitrary domain. It is not suitable for use by dnsmasq as an upstream server and should be removed from the configuration. Note that if you have more than one upstream nameserver configured dnsmasq will load-balance across them and it may be some time before dnsmasq gets around to using a particular nameserver. This means that a particular configuration may work for sometime with a broken upstream nameserver configuration.

Q: Does the dnsmasq DHCP server probe addresses before allocating them, as recommended in RFC2131?

A: Yes, dynamically allocated IP addresses are checked by sending an ICMP echo request (ping). If a reply is received, then dnsmasq assumes that the address is in use, and attempts to allocate an different address. The wait for a reply is between two and three seconds. Because the DHCP server is not re-entrant, it cannot serve other DHCP requests during this time. To avoid dropping requests, the address probe may be skipped when dnsmasq is under heavy load.

Q: I'm using dnsmasq on a machine with the Firestarter firewall, and DHCP doesn't work. What's the problem?
A: This a variant on the iptables problem. Explicit details on how to proceed can be found at 

Q: I'm using dnsmasq on a machine with the shorewall firewall, and DHCP doesn't work. What's the problem?

A: This a variant on the iptables problem. Explicit details on how to proceed can be found at 

Q: Dnsmasq fails to start up with a message about capabilities. Why did that happen and what can do to fix it?

A: Change your kernel configuration: either deselect CONFIG_SECURITY _or_ select CONFIG_SECURITY_CAPABILITIES. Alternatively, you can remove the need to set capabilities by running dnsmasq as root.

Q: Where can I get .rpms Suitable for openSUSE/SLES?

A: Dnsmasq is in openSUSE itself, and the latest releases are also available at http://download.opensuse.org/repositories/network/

Q: Can I run dnsmasq in a Linux vserver?

A: Yes, as a DNS server, dnsmasq will just work in a vserver. To use dnsmasq's DHCP function you need to give the vserver extra system capabilities. Please note that doing so will lesser the overall security of your system. The capabilities required are NET_ADMIN and NET_RAW. NET_ADMIN is essential, NET_RAW is required to do an ICMP "ping" check on newly allocated addresses. If you don't need this check, you can disable it with --no-ping and omit the NET_RAW capability.

Adding the capabilities is done by adding them, one per line, to either /etc/vservers/<vservername>/ccapabilities for a 2.4 kernel or /etc/vservers/<vservername>/bcapabilities for a 2.6 kernel (please refer to the vserver documentation for more information).

Q: What's the problem with syslog and dnsmasq?

A: In almost all cases: none. If you have the normal arrangement with local daemons logging to a local syslog, which then writes to disk,
then there's never a problem. If you use network logging, then there's a potential problem with deadlock: the syslog daemon will do DNS lookups so that it can log the source of log messages, these lookups will (depending on exact configuration) go through dnsmasq, which also sends log messages. With bad timing, you can arrive at a situation where syslog is waiting for dnsmasq, and dnsmasq is waiting for syslog; they will both wait forever. This problem is fixed from dnsmasq-2.39, which introduces asynchronous logging: dnsmasq no longer waits for syslog and the deadlock is broken. There is a remaining problem in 2.39, where "log-queries" is in use. In this case most DNS queries generate two log lines, if these go to a syslog which is doing a DNS lookup for each log line, then those queries will in turn generate two more log lines, and a chain reaction runaway will occur. To avoid this, use syslog-ng and turn on syslog-ng's dns-cache function.

Q: DHCP doesn't work with windows Vista, but everything else is fine.

A: The DHCP client on windows Vista (and possibly later versions) demands that the DHCP server send replies as broadcasts. Most other clients don't do this. The broadcasts are send to 255.255.255.255. A badly configured firewall which blocks such packets will show exactly these symptoms (Vista fails, others work).

Q: DHCP doesn't work with windows 7 but everything else is fine.

A: There seems to be a problem if Windows 7 doesn't get a value for DHCP option 252 in DHCP packets it gets from the server. The symptoms have been variously reported as continual DHCPINFORM requests in an attempt to get an option-252, or even ignoring DHCP offers completely (and failing to get an IP address) if there is no option-252 supplied. DHCP option 252 is for WPAD, WWW Proxy Auto Detection and if you don't want or need to use that, then simplest fix seems to be to supply an empty option with:

dhcp-option=252,"\n"
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*/

#include "dnsmasq.h"

/* Time between forced re-loads from kernel. */
define INTERVAL 90

#define ARP_MARK 0
#define ARP_FOUND 1 /* Confirmed */
define ARP_NEW 2 /* Newly created */
define ARP_EMPTY 3 /* No MAC addr */

struct arp_record {
    unsigned short hwlen, status;
    int family;
    unsigned char hwaddr[DHCP_CHADDR_MAX];
    struct all_addr addr;
    struct arp_record *next;
};

static struct arp_record *arps = NULL, *old = NULL, *freelist = NULL;
static time_t last = 0;

static struct arp_record *arp = NULL, *old = NULL, *freelist = NULL;
static time_t last = 0;

static int filter_mac(int family, char *addrp, char *mac, size_t maclen, void *parmv)
{    struct arp_record *arp;

    (void)parmv;
if (maclen > DHCP_CHADDR_MAX)
    return 1;

#ifndef HAVE_IPV6
    if (family != AF_INET)
        return 1;
#endif

    /* Look for existing entry */
    for (arp = arps; arp; arp = arp->next)
    {
        if (family != arp->family || arp->status == ARP_NEW)
            continue;

        if (family == AF_INET)
        {
            if (arp->addr.addr.addr4.s_addr != ((struct in_addr *)addrp)->s_addr)
                continue;
        }
#if defined HAVE_IPV6
        else
        {
            if (!IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, (struct in6_addr *)addrp))
                continue;
        }
#endif
        if (arp->status == ARP_EMPTY)
        {
            /* existing address, was negative. */
            arp->status = ARP_NEW;
            arp->hwlen = maclen;
            memcpy(arp->hwaddr, mac, maclen);
        }
        else if (arp->hwlen == maclen && memcmp(arp->hwaddr, mac, maclen) == 0)
        /* Existing entry matches - confirm. */
        {   arp->status = ARP_FOUND;
            else
                continue;

            break;
        }

    if (!arp)
    {
        /* New entry */
        if (freelist

    }
arp = freelist;
freelist = freelist->next;
}
else if (!(arp = whine_malloc(sizeof(struct arp_record))))
return 1;

arp->next = arps;
arps = arp;
arp->status = ARP_NEW;
arp->hwlen = maclen;
arp->family = family;
memcpy(arp->hwaddr, mac, maclen);
if (family == AF_INET)
arp->addr.addr.addr4.s_addr = ((struct in_addr *)addrp)->s_addr;
#ifdef HAVE_IPV6
else
memcpy(&arp->addr.addr.addr6, addrp, IN6ADDRSZ);
#endif

return 1;

/* If in lazy mode, we cache absence of ARP entries. */
int find_mac(union mysockaddr *addr, unsigned char *mac, int lazy, time_t now)
{
struct arp_record *arp, *tmp, **up;
int updated = 0;
again:

/* If the database is less then INTERVAL old, look in there */
if (difftime(now, last) < INTERVAL)
{
/* addr == NULL -> just make cache up-to-date */
if (!addr)
return 0;

for (arp = arps; arp; arp = arp->next)
{
if (addr->sa.sa_family != arp->family)
continue;

if (arp->family == AF_INET &&
arp->addr.addr.addr4.s_addr != addr->in.sin.addr.s_addr)
continue;

return 1;
}
#ifdef HAVE_IPV6
if (arp->family == AF_INET6 &&
    !IN6_ARE_ADDR_EQUAL(&arp->addr.addr.addr6, &addr->in6.sin6_addr))
    continue;
#endif

/* Only accept positive entries unless in lazy mode. */
if (arp->status != ARP_EMPTY || lazy || updated)
    {
        if (mac && arp->hwlen != 0)
            memcpy(mac, arp->hwaddr, arp->hwlen);
        return arp->hwlen;
    }

/* Not found, try the kernel */
if (!updated)
    {
        updated = 1;
        last = now;

        /* Mark all non-negative entries */
        for (arp = arps; arp; arp = arp->next)
            if (arp->status != ARP_EMPTY)
                arp->status = ARP_MARK;

        iface_enumerate(AF_UNSPEC, NULL, filter_mac);

        /* Remove all unconfirmed entries to old list. */
        for (arp = arps, up = &arps; arp; arp = tmp)
            {
                tmp = arp->next;

                if (arp->status == ARP_MARK)
                    {
                        *up = arp->next;
                        arp->next = old;
                        old = arp;
                    }
                else
                    up = &arp->next;
            }

        goto again;
    }

/* record failure, so we don't consult the kernel each time
we're asked for this address */
if (freelist)
{
    arp = freelist;
    freelist = freelist->next;
}
else
    arp = whine_malloc(sizeof(struct arp_record));

if (arp)
{
    arp->next = arps;
    arps = arp;
    arp->status = ARP_EMPTY;
    arp->family = addr->sa.sa_family;
    arp->hwlen = 0;

    if (addr->sa.sa_family == AF_INET)
        arp->addr.addr.addr4.s_addr = addr->in.sin_addr.s_addr;
    #ifdef HAVE_IPV6
        else
            memcpy(&arp->addr.addr.addr6, &addr->in6.sin6_addr, IN6ADDRSZ);
    #endif
}

return 0;
}

int do_arp_script_run(void)
{
    struct arp_record *arp;

    /* Notify any which went, then move to free list */
    if (old)
    {
        #ifdef HAVE_SCRIPT
            if (option_bool(OPT_SCRIPT_ARP))
                queue_arp(ACTION_ARP_DEL, old->hwaddr, old->hwlen, old->family, &old->addr);
        #endif

        arp = old;
        old = arp->next;
        arp->next = freelist;
        freelist = arp;
        return 1;
    }

    for (arp = arps; arp; arp = arp->next)
        if (arp->status == ARP_NEW)
```c
#define HAVE_SCRIPT

if (option_bool(OPT_SCRIPT_ARP))
    queue_arp(ACTION_ARP, arp->hwaddr, arp->hwlen, arp->family, &arp->addr);
#endif

arp->status = ARP_FOUND;
return 1;
}

return 0;
```

---

1.436 netty-transport 4.1.32.Final

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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/socket/SocketChannel.java
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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/group/package-info.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/InternetProtocolFamily.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* </p>
* <h3>State management</h3>
*
A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends `@link SimpleChannelInboundHandler<Message>` {
    private boolean loggedIn;

    @Override
    public void channelRead0( `@link ChannelHandlerContext` ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See `@link ChannelInitializer#initChannel(Channel)`,
public class DataServerInitializer extends `@link ChannelInitializer`< `@link Channel` > {
    @Override
    public void initChannel( `@link Channel` channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use `@link AttributeKey`s which is provided by
* { @link ChannelHandlerContext}: *
* &lt;pre&gt; *
* public interface Message {
*     // your methods here
* }
* &lt;/pre&gt; *
* { @code @Sharable} *
* public class DataServerHandler extends { @link SimpleChannelInboundHandler} &lt;Message&gt; { *
*     private final { @link AttributeKey} &lt;@link Boolean} &gt; auth = *
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")}; *
* &lt;/code&gt; @Override} *
* public void channelRead({ @link ChannelHandlerContext} ctx, Message message) { *
*    { @link Attribute} &lt;@link Boolean} &gt; attr = ctx.attr(auth); *
*    if (message instanceof LoginMessage) { *
*        authenticate((LoginMessage) o); *
*        &lt;b&gt;attr.set(true)&lt;/b&gt;; *
*    } else (message instanceof GetDataMessage) { *
*        if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) { *
*            ctx.writeAndFlush(fetchSecret((GetDataMessage) o)); *
*        } else {
*            fail(); *
*        } *
*    }
* &lt;/pre&gt; *
* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the *
* same handler instance to different pipelines: *
* &lt;pre&gt; *
* public class DataServerInitializer extends { @link ChannelInitializer} &lt;@link Channel} &gt; { *
*     private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler(); *
* &lt;/pre&gt; *
* &lt;h4&gt;The { @code @Sharable} annotation&lt;/h4&gt; *
* &lt;p&gt; *
* In the example above which used an { @link AttributeKey}, *
* you might have noticed the { @code @Sharable} annotation. *
* &lt;p&gt;
* If a [@link ChannelHandler] is annotated with the [@code @Sharable] annotation, it means you can create an instance of the handler just once and add it to one or more [@link ChannelPipeline]s multiple times without a race condition.

* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

* This annotation is provided for documentation purpose, just like <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

* Additional resources worth reading

* Please refer to the [@link ChannelHandler], and [@link ChannelPipeline] to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

*/

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1.441 wildfly-elytron-sasl-entity 1.11.4.Final

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* /opt/ws_local/PERMITS_SQL/1094802099_1601320157.87/0/wildfly-elytron-sasl-entity-1-11-4-final-sources-jar/org/wildfly/security/sasl/entity/EntitySaslServerFactory.java

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* /opt/ws_local/PERMITS_SQL/1094802099_1601320157.87/0/wildfly-elytron-sasl-entity-1-11-4-final-sources-jar/org/wildfly/security/sasl/entity/EntitySaslServerFactory.java

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1.442 bzip2 1.0.6

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1.443 pam 1.3.0

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1.444 opensaml-xacml-saml-api 3.3.1

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1.445 json-c 0.13

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1.446 python 2.7.5 88.el7

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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
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1.457 runc 1.0.0-rc5

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Gocheck - A rich testing framework for Go

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jar/io/netty/resolver/AddressResolver.java
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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All Python releases are Open Source (see http://www.opensource.org for
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* Encodes and decodes to and from Base64 notation.

* Homepage: [http://iharder.net/base64](http://iharder.net/base64).

* The `options` parameter, which appears in a few places, is used to pass several pieces of information to the encoder. In the "higher level" methods such as `encodeBytes` (bytes, options) the options parameter can be used to indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds (though that breaks strict Base64 compatibility), and encoding using the URL-safe and Ordered dialects.

* The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```java
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES );
```

* to compress the data before encoding it and then making the output have no newline characters.

* Change Log:

* v2.2.2 - Fixed encodeFileToFile and decodeFileToFile to use the Base64.InputStream class to encode and decode on the fly which uses less memory than encoding/decoding an entire file into memory before writing.

* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~< 40 bytes).

* v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:

  * The default is RFC3548 format.

  * Calling `Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT)` generates URL and file name friendly format as described in Section 4 of RFC3548. [http://www.faqs.org/rfcs/rfc3548.html](http://www.faqs.org/rfcs/rfc3548.html)

  * Calling `Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT)` generates URL and file name friendly format that preserves lexical ordering as described in [http://www.faqs.org/qa/rfc1940.html](http://www.faqs.org/qa/rfc1940.html)

  * Special thanks to Jim Kellerman at [http://www.powerset.com/](http://www.powerset.com/) for contributing the new Base64 dialects.

* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.

* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).

* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.

* v2.0 - I got rid of methods that used booleans to set options.

* Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it.
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).<em></em></li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode(String s, boolean gzipCompressed)</tt>.
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).<em></em></li>
* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.<em></em></li>
* <li>v1.4 - Added helper methods to read/write files.<em></em></li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.<em></em></li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.<em></em></li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.<em></em></li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.<em></em></li>
* </ul>
* <p>
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* </p>
* *
* @author Robert Harder
* @author rob@iharder.net
* @version 2.2.2
*/

Found in path(s):
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1-
  jar/org/hornetq/utils/Base64.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/utils/UUID.java
* /opt/cola/permits/1110676238_1606843959.02/0/hornetq-commons-2-4-7-final-sources-1.jar/org/hornetq/utils/UUIDGenerator.java
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1.468 valgrind 3.15.0
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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/Crc32.java
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/MessageAggregationException.java

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/
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

Found in path(s):
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/base64/Base64.java
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* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/string/StringEncoder.java

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 */
/**
 * A decoder that splits the received [@link ByteBuf]s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *<h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *<pre>
 *<b>lengthFieldOffset</b> = <b>0</b>
 */

* `<b>lengthFieldLength</b> = 2`
* `lengthAdjustment = 0`
* `initialBytesToStrip = 0 (= do not strip header)`

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+

* </pre>

* `lengthFieldOffset = 0`
* `lengthFieldLength = 2`
* `lengthAdjustment = 0`
* `<b>initialBytesToStrip</b> = 2 (= the length of the Length field)`

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+

* </pre>

* `<h3>2 bytes length field at offset 0, strip header</h3>`

* Because we can get the length of the content by calling
* `[@link ByteBuf#readableBytes()]`, you might want to strip the length
* field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we
* specified `<tt>2</tt>`, that is same with the length of the length field, to
* strip the first two bytes.

* `<pre>`
* `lengthFieldOffset = 0`
* `lengthFieldLength = 2`
* `lengthAdjustment = 0`
* `<b>initialBytesToStrip</b> = 2 (= the length of the Length field)`
* `</pre>`

* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* `<tt>lengthAdjustment</tt>` . Because the length value in this example message
* is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`
* as `<tt>lengthAdjustment</tt>` for compensation.

* `<pre>`
* `lengthFieldOffset = 0`
* `lengthFieldLength = 2`
* `<b>lengthAdjustment</b> = -2 (= the length of the Length field)`
* `initialBytesToStrip = 0`
* `</pre>`

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
The following message is a simple variation of the first example. An extra header value is prepended to the message. `lengthAdjustment` is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```
  lengthFieldOffset   = 2 (= the length of Header 1)
  lengthFieldLength   = 3
  lengthAdjustment    = 0
  initialBytesToStrip = 0

  BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
  +----------+----------+----------------+      +----------+----------+----------------+
  | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
  |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
  +----------+----------+----------------+      +----------+----------+----------------+
```

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `lengthAdjustment` so that the decoder counts the extra header into the frame length calculation.

```
  lengthFieldOffset   = 0
  lengthFieldLength   = 3
  lengthAdjustment    = 2 (= the length of Header 1)
  initialBytesToStrip = 0

  BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
  +----------+----------+----------------+      +----------+----------+----------------+
  |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
  | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO, WORLD" |
  +----------+----------+----------------+      +----------+----------+----------------+
```

This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
*<pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*<pre>

* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +-----------------+-----------------+      +-----------------+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------+-----------------+      +-----------------+-----------------+
*<pre>

*h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
*<pre>
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*<pre>

* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +-----------------+-----------------+      +-----------------+-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------+-----------------+      +-----------------+-----------------+
*<pre>

* @see LengthFieldPrepender
*/

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* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
1.492 slf4j 1.7.5

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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/util/UrlDecodeException.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/handlers/proxy/RouteParsingStrategy.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/server/handlers/proxy/RouteIteratorFactory.java

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 */
/**
 * Encodes and decodes to and from Base64 notation.
 * </p>
 * <p>
 * </p>
 * <p>
 * Example:
 * </p>
 * <code>String encoded = Base64.encode( myByteArray );</code> <br />
 * <code>byte[] myByteArray = Base64.decode( encoded );</code>
 * <p>
 * The <tt>options</tt> parameter, which appears in a few places, is used to pass several pieces of information to the
In the "higher level" methods such as `encodeBytes( bytes, options )` the options parameter can be used to indicate such things:

* as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered dialects.

Note, according to RFC3548, Section 2.1, implementations should not add line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines by default.

The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```java
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );
```

to compress the data before encoding it and then making the output have newline characters.

Also...

```java
String encoded = Base64.encodeBytes( crazyString.getBytes() );
```

Change Log:

* v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.

* v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.

* v2.3.5 - Fixed bug in `encodeFromFile` where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.
* v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the Base64 encoding
* (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also
* added experimental support for specifying a class loader when using the
* `{@link #decodeToObject(String, int, ClassLoader)} method.</li>
* v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its
* CharEncoders and so
* forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException
* explicitly
* inline.</li>
* v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be
* so that the
* code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using
* the `{@link #encodeBytesToBytes(byte[])} family of methods (and not using the gzip options which uses a
* different mechanism
* with streams and stuff).</li>
* v2.3.1 - Added `{@link #encodeBytesToBytes(byte[], int, int, int)} and some similar helper methods to be
* more efficient
* with memory by not returning a String but just a byte array.</li>
* v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes
* queued up and
* finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to
* everyone
* else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null
* values or
* something similar. Here are some changes that may affect you:
* ul
* li><em>Does not break lines, by default.</em> This is to keep in compliance with &lt;a
* href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a&gt;.&lt;/li&gt;
* li><em>Throws exceptions instead of returning null values.</em> Because some operations (especially those
* that may permit
* the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some
* discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOException rather than return null if ever
* there's an
* error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been
* done
* this way to begin with.&lt;/li&gt;
* li><em>Removed all references to System.out, System.err, and the like.</em> Shame on me. All I can say is
* sorry they were
* ever there.&lt;/li&gt;
* li><em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed such as when passed
* arrays are null or
* offsets are invalid.&lt;/li&gt;
* li>Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before
* for people who
* were thorough in their own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~<lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to
* support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
* <ol>
* <li>The default is RFC3548 format.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves
* lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html</li>
* </ol>
* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a> for
* contributing the new
* Base64 dialects.</li>
* *
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and
* writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code
* now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are
* cleaner. You'll probably have to change some method calls that you were making to support the new options format (</li>
* <tt>int</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.
* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed
* base64 data in an otherwise "normal" stream (like an XML file).</li>
* <li>v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added
* the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not
* completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>

* 

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* periodically to check for updates or to contribute improvements.
* </p>

* 

* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/websockets/core/protocol/version07/Base64.java
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jar/io/undertow/server/handlers/proxy/mod_cluster/MCMPHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/ModCluster.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/ModClusterProxyClient.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/MCMPAdvertiseTask.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/ModClusterProxyTarget.java

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*/
* An extension to {@link AbstractConfidentialityHandler} that uses the Host header from the incoming message and specifies the confidential address by just switching the port.
* @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/security/handlers/SinglePortConfidentialityHandler.java
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io.undertow.protocols.alpn.JDK8HackAlpnProvider
io.undertow.protocols.alpn.JettyAlpnProvider
io.undertow.protocols.alpn.JDK9AlpnProvider
io.undertow.protocols.alpn.OpenSSLAlpnProvider

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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/META-INF/services/io.undertow.protocols.alpn.ALPNProvider

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 */
/**
 * Handler responsible for checking of confidentiality is required for the requested resource and if so rejecting the request
 * and redirecting to a secure address.
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */
/**
 * Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
 *
 * Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual SSLSession.
```
* @param exchange - The {@link HttpServerExchange} for the request being processed.
* @return true if the request is 'sufficiently' confidential, false otherwise.
*/
/**
 * Use the HttpServerExchange to identify if confidentiality is required.
 *
 * This method currently returns true for all requests, sub-classes can override this to provide a custom check.
 *
 * TODO: we should deprecate this and just use a predicate to decide to execute the handler instead
 *
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return true if the request requires confidentiality, false otherwise.
 */
/**
 * All sub-classes are required to provide an implementation of this method, using the HttpServerExchange for the current
 * request return the address to use for a redirect should confidentiality be required and the request not be confidential.
 *
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return The [ @link URI] to redirect to.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/security/handlers/AbstractConfidentialityHandler.java

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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/SNIAlpnEngineManager.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/alpn/ALPNEngineManager.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/SNISSLExplorer.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/SNISSLEngine.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources-jar/io/undertow/protocols/ssl/SNISSLContextSpi.java
jar/io/undertow/session/SslSessionConfig.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/DefaultByteBufferPool.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/session/InMemorySessionManager.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/session/CompositeExchangeAttribute.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/SetHeaderHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/websockets/core/protocol/Handshake.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/util/PathTemplateMatcher.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/util/Protocols.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/util/StatusCodes.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/RoutingHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/builder/HandlerParser.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/proxy/mod_cluster/NodeStatus.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/protocol/http/ALPNLimitingSSLEngine.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/NotificationReceiverHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/PathTemplateHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/builder/HandlerParser.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/proxy/mod_cluster/NodeStatus.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/RoutingHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/PathTemplateHandler.java
* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/handlers/builder/HandlerParser.java
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* /opt/ws_local/PERMITS_SQL/1094802706_1601321665.01/0/undertow-core-2-1-0-final-sources.jar/io/undertow/server/protocol/http/Http2ServerConnection.java
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io.undertow.protocols.ssl.SNIAlpnEngineManager
io.undertow.protocols.alpn.DefaultAlpnEngineManager

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 */

/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
*
* <p>This method acts as bridge between array-based and collection-based
* APIs.
*
* @return an array containing all of the elements in this deque
*/

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include/GL/glxext.h
include/GL/wglxext.h :

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1.496 shiro-crypto-cipher 1.7.1

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1.497 binutils 2.30

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This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.
Dean Elsner wrote the original gas for vax.  [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.
John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.
Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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<one line to give the library's name and a brief idea of what it does.>

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/collections/Buffer.java

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1.512 tcp-dump 4.9.2-0ubuntu0.14.04.1

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It was downloaded from http://www.tcpdump.org/

Upstream Authors: tcpdump-workers@tcpdump.org

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Current upstream maintainers:
Bill Fenner <fenner@research.att.com>
Fulvio Risso <risso@polito.it>
Guy Harris <guy@alum.mit.edu>
Hannes Gredler <hannes@juniper.net>
Jun-ichiro itojun Hagino <itojun@iijlab.net>
Michael Richardson <mcr@sandelman.ottawa.on.ca>

Additional people who have contributed patches:

Alan Bawden <Alan@LCS.MIT.EDU>
Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>
Albert Chin <china@thewrittenword.com>
Andrew Brown <atatat@atatdot.net>
Antti Kantee <pooka@netbsd.org>
Arkadiusz Miskiewicz <misiek@pld.org.pl>
Armando L. Caro Jr. <acaro@mail.eecis.udel.edu>
Assar Westerlund <assar@sics.se>
Brian Ginsbach <ginsbach@cray.com>
Charles M. Hannum <mycroft@netbsd.org>
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Darren Reed <darrenr@reed.wattle.id.au>
David Kaelbling <drk@sgi.com>
David Young <dyoung@ojctech.com>
Don Ebright <Don.Ebright@compuware.com>
Eric Anderson <anderse@hpl.hp.com>
Franz Schaefer <schaefer@mond.at>
Gianluca Varenni <varenni@netgroup-serv.polito.it>
Gisle Vanem <giva@bgnett.no>
Graeme Hewson <ghewson@cix.compulink.co.uk>
Greg Stark <gsstark@mit.edu>
Greg Troxel <gdt@ir.bbn.com>
Guillaume Pelat <endymion_@users.sourceforge.net>
Hyung Sik Yoon <hsyn@kr.ibm.com>
Igor Khristophorov <igor@atdot.org>
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Marcus Felipe Pereira<marcus@task.com.br>
Martin Husemann<martin@netbsd.org>
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Onno van der Linden<brno@simplex.nl>
Paul Mundt<lethal@linux-sh.org>
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Scott Gifford<sgifford@tir.com>
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Shaun Clowes<brno@progsoc.uts.edu.au>
Solomon Peachy<pizza@shaftnet.org>
Stefan Hudson<hudson@mbay.net>
Takashi Yamamoto<yamamoto@nwd.biglobe.ne.jp>
Tony Li<tl@procket.com>
Torsten Landschoff<torsten@debian.org>
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Xianjie Zhang<xzhang@cup.hp.com>
Yen Yen Lim
Yoann Vandoorselaere<yvandoor@prelude-ids.org>

The original LBL crew:
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Craig Leres
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DAMAGE.
------------------------------------------------------------------------Patch for Ubuntu bug #399071
Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.
Authors: Dustin Kirkland <kirkland@canonical.com>
Upstream status: Ubuntu-specific, maybe submit to Debian
Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}
+int display_legal(pam_handle_t *pamh)
+{
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+
PAM_MODUTIL_DEF_PRIVS(privs);
+
+
/* Get the password entry */
+
pwd = pam_modutil_getpwnam (pamh, user);
+
if (pwd != NULL)
+
{
+
if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+
pam_syslog(pamh, LOG_ERR,

Open Source Used In SDWan 20.6.1 5495


"Unable to change UID to %d temporarily\n", pwd->pw_uid);
      retval = PAM_SESSION_ERR;
      goto finished;
    }

    if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
      goto finished;
    if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
      goto finished;

    if (stat(flag, &s) != 0)
      {
      display_file(pamh, "/etc/legal");
      mkdir(dir, 0700);
      f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
               S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
      if (f>=0) close(f);
    }

    if (pam_modutil_regain_priv(pamh, &privs)) {
      pam_syslog(pamh, LOG_ERR,
          "Unable to change UID back to %d\n", privs.old_uid);
      retval = PAM_SESSION_ERR;
    }

    _pam_drop(flag);
    _pam_drop(dir);
  }
  return retval;
}

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
    display_file(pamh, motd_path);

  /* Display the legal disclaimer only if necessary */
+  retval = display_legal(pamh);
+  return retval;
  }

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on
It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.515 neo4j-command-line 4.1.7
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* /opt/ws_local/PERMITS_SQL/1094804066_1601321374.44/0/wildfly-elytron-sasl-anonymous-1-11-4-final-
  sources-jar/META-INF/maven/org.wildfly.security/wildfly-elytron-sasl-anonymous/pom.xml
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  sources-jar/org/wildfly/security/sasl/anonymous/AnonymousSaslServer.java
* /opt/ws_local/PERMITS_SQL/1094804066_1601321374.44/0/wildfly-elytron-sasl-anonymous-1-11-4-final-
  sources-jar/org/wildfly/security/sasl/anonymous/AnonymousClientFactory.java
* /opt/ws_local/PERMITS_SQL/1094804066_1601321374.44/0/wildfly-elytron-sasl-anonymous-1-11-4-final-
  sources-jar/org/wildfly/security/sasl/anonymous/AnonymousSaslClient.java
* /opt/ws_local/PERMITS_SQL/1094804066_1601321374.44/0/wildfly-elytron-sasl-anonymous-1-11-4-final-
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1.517 opensaml-xmlsec-impl 3.3.1

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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/keyinfo/impl/ChainingKeyInfoCredentialResolver.java
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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/encryption/impl/DHKeyValueUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/keyinfo/impl/AbstractSecurityParametersResolver.java
* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/encryption/impl/TransformsUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/signature/impl/KeyInfoReferenceUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/keyinfo/impl/KeyInfoResolutionContext.java
* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/signature/impl/PGPKeyIDBuilder.java
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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/signature/signature/impl/RetrievalMethodUnmarshaller.java
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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/signature/impl/YBuilder.java
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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/encryption/impl/TransformsBuilder.java
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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/encryption/impl/QBuilder.java
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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/signature/impl/PublicKeyImpl.java
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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/signature/impl/ChainingSignatureTrustEngine.java
* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/encryption/impl/AlgorithmIdentifierTypeMarshaller.java
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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/signature/impl/TransformMarshaller.java
* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/encryption/impl/AlgorithmIdentifierTypeImpl.java
* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/keyinfo/impl/StaticKeyInfoGenerator.java
* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/encryption/impl/CipherDataMarshaller.java
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* /opt/ws_local/PERMITS_SQL/1021462036_1591858094.53/0/opensaml-xmlsec-impl-3-3-1-sources-jar/org/opensaml/xmlsec/config/JavaCryptoValidationInitializer.java
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data
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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

#! /usr/bin/env python

# Copyright (C) 2011-2017 Free Software Foundation, Inc.
#
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

```python
import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST)
or reldirname in NOT_FSF_LIST
or reldirname in BY_HAND):
    # Prune this directory from our search list.
    dirs.remove(dirname)
for filename in files:
    relpath = "%s/%s" % (root, filename)
    if (filename in EXCLUDE_ALL_LIST
        or relpath in EXCLUDE_LIST
        or relpath in NOT_FSF_LIST
        or relpath in BY_HAND):
        # Ignore this file.
        pass
    else:
        result.append(relpath)
return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)
for line in update_out:
    if line.endswith(\'\n\'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice."

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

def main ():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)
update_list = get_update_list()
update_files (update_list)

# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print "\033[31mREMINDER: The following files must be updated by hand." \
    "\033[0m"
    for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

############################################################################
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import' )

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "aclocal.m4", )

# The list of files to update by hand.
BY_HAND = (  
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",  
    "gdb/testsuite/gdb.base/step-line.c", )
# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.

MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.

NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/lk-ldn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-Endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_calls.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vml.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-configuration", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/lk-ldn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_int.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
if __name__ == "__main__":
    main()
BEGIN{
    FS="\""
    print "/** ==> Do not modify this file!! " \
    
    ":set ro;"
    print "   It is created automatically by copying.awk.");
    print " Modify copying.awk instead. <= */";
    print ""
    print "#include \"defs.h\"
    print "#include \"command.h\"
    print "#include \"gdbcmd.h\"
    print ""
    print "static void show_copying_command (char *, int);"
    print ""
    print "static void show_warranty_command (char *, int);"
    print ""
    print "void _initialize_copying (void);"
print "";
print "static void";
print "show_copying_command (char *ignore, int from_tty);";
print "{";
}
NR == 1;/^[ \t]*15\. Disclaimer of Warranty\[ ]*$/
if ($0 ~ //)
{
    printf " printf_filtered (\"\n\n\n";
}
else if ($0 !~ ^/[ \t]*15\. Disclaimer of Warranty\[ ]*$/)
{
    printf " printf_filtered (\"\n"
for (i = 1; i < NF; i++)
printf "%s\n", $i;
    printf "%s
\n", $NF;
}
END\^[ \t]*15\. Disclaimer of Warranty\[ ]*$/
print "}\";
print "";
print "static void";
print "show_warranty_command (char *ignore, int from_tty);";
print "{";
}
/^[/ ]*15\. Disclaimer of Warranty\[ ]*$/
print "}";
print ";"
print "void"
print ".initialize_copying (void)";
print ";"
print " add_cmd ("copying", no_set_class, show_copying_command, ");
print " ("Conditions for redistributing copies of GDB. ");
print "&showlist);":
print " add_cmd ("warranty", no_set_class, show_warranty_command, ");
print " (Various kinds of warranty you do not have. ");
print "&showlist);":
print ""
print "/\ For old-timers, allow \"info copying\", etc. */";
print " add_info ("copying", show_copying_command, ");
print " _("Conditions for redistributing copies of GDB.");"
print " add_info ("warranty", show_warranty_command, ");
print " _("Various kinds of warranty you do not have.");"
print "}";

1.519 commons-pool 2.6.2

1.520 fontconfig 2.12.6
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1.522 jgroups-kubernetes 1.0.14.Final
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1.523 neethi 3.1.1

1.524 artemis-stomp-protocol 2.10.1
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1.535 ncurses 5.9-14.20130511.el7_4

1.535.1 Available under license:
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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1.536 angular-input-match 1.4.0
1.536.1 Available under license:

No license file was found, but licenses were detected in source scan.

/*!
 * angular-input-match
 * Checks if one input matches another
 * @version v1.4.0
 * @link https://github.com/TheSharpieOne/angular-input-match
 * @license MIT License, http://www.opensource.org/licenses/MIT
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1077909535_1597181426.43/0/angular-validation-match-1-zip/angular-validation-match/dist/angular-input-match.js

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'use strict';

var gulp = require('gulp');
var ngAnnotate = require('gulp-ng-annotate');
var uglify = require('gulp-uglifyjs');
var wrap = require('gulp-wrap');
var bump = require('gulp-bump');
var gulpKarma = require('gulp-karma');
var gulpSequence = require('gulp-sequence').use(gulp);
var pkg = require('./package.json');
var files = require('./files');

var karmaTestConfig = gulpKarma({configFile: 'karma.conf.js', action: 'run'});

var banner = '/*!
 * <%= pkg.name %>
 * <%= pkg.description %>
 * @version v<%= pkg.version %>
 * @link <%= pkg.homepage %>
 * @license MIT License, http://www.opensource.org/licenses/MIT
 */

gulp.task('bump', function(){
 return gulp.src('./*.json')
 .pipe(bump({type:'minor'}))
 .pipe(gulp.dest('./'));
});

gulp.task('buildDev', function () {
 return gulp.src(files.mergeFilesFor('src'))
 .pipe(wrap(banner+'(function(window, angular, undefined){<%= contents %>})(window, window.angular);',
 {pkg: pkg}));
});
```javascript
.pipe(ngAnnotate())
.pipe(gulp.dest('./build/'));

gulp.task('minBuild', function () {
  return gulp.src('./build/*+pkg.name+.js')
  .pipe(uglify(pkg.name+'.min.js', {
    outSourceMap: false,
    mangle: true,
    preserveComments: 'some'
  }))
  .pipe(gulp.dest('./build/'));
});

gulp.task('copyBuild', function () {
  return gulp.src('./build/*.js')
  .pipe(gulp.dest('./dist/'));
});

gulp.task('default', function(){
  return gulp.watch(files.mergeFilesFor('src'), ['test']);
});

gulp.task('test', function () {
  return gulp.src(files.mergeFilesFor('karma-src')).pipe(karmaTestConfig);
});

gulp.task('testBuild', function () {
  return gulp.src(files.mergeFilesFor('karma-build')).pipe(karmaTestConfig);
});

gulp.task('testMin', function () {
  return gulp.src(files.mergeFilesFor('karma-min')).pipe(karmaTestConfig);
});

gulp.task('build', gulpSequence('buildDev', 'minBuild', ['testBuild','testMin']));

gulp.task('release', gulpSequence('bump', 'build', 'copyBuild'));

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1077909535_1597181426.43/0/angular-validation-match-1-zip/angular-validation-match/gulpfile.js

1.537 opensaml-profile-api 3.3.0
1.538 shadow-utils 4.6 5.el7

1.538.1 Available under license:

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/* number.c: Implements arbitrary precision numbers. */
/*

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#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_STORAGE used for special numbers. */
bc_num _zero_;  
bc_num _one_;  
bc_num _two_;  

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)
int length, scale;
{
bc_num temp;

if (_bc_Free_list != NULL) {
    temp = _bc_Free_list;
    _bc_Free_list = temp->n_next;
} else {
    temp = (bc_num) malloc (sizeof(bc_struct));
    if (temp == NULL) bc_out_of_memory();
}
    temp->n_sign = PLUS;
temp->n_len = length;
temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = (char *) malloc (length+scale);
    if (temp->n_ptr == NULL) bc_out_of_memory();
temp->n_value = temp->n_ptr;
memset (temp->n_ptr, 0, length+scale);
return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only
    frees the storage if reference count is zero. */

void
bc_free_num (num)
bc_num *num;
{
if (*num == NULL) return;
(*num)->n_refs--;
if ((*num)->n_refs == 0) {
    if (((*num)->n_ptr)
        free (((*num)->n_ptr);
    (*num)->n_next = _bc_Free_list;
    _bc_Free_list = *num;
}
*num = NULL;
}

/* Initialize the number package! */

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_ = bc_new_num (1,0);
}
_one_ -> n_value[0] = 1;
_two_ = bc_new_num (1,0);
_two_ -> n_value[0] = 2;
}

/* Make a copy of a number! Just increments the reference count! */

bc_num
bc_copy_num (num)

  bc_num num;
{
  num->n_refs++;
  return num;
}

/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)

  bc_num *num;
{
  *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
   _bc_rm_leading_zeros just moves the data "value" pointer to the
correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)

  bc_num num;
{
  /* We can move n_value to point to the first non zero digit! */
  while (*num->n_value == 0 && num->n_len > 1) {
    num->n_value++;
    num->n_len--;
  }
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
bc_num n1, n2;
int use_sign;
int ignore_last;
{
char *n1ptr, *n2ptr;
int count;

/* First, compare signs. */
if (use_sign && n1->n_sign != n2->n_sign)
{
    if (n1->n_sign == PLUS)
        return (1); /* Positive N1 > Negative N2 */
    else
        return (-1); /* Negative N1 < Positive N1 */
}

/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
{
    if (n1->n_len > n2->n_len)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* If we get here, they have the same number of integer digits. */
    
    check the integer part and the equal length part of the fraction. */
    count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

    while ((count > 0) && (*n1ptr == *n2ptr))
    {
        n1ptr++;
        n2ptr++;
        count--;
    }
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}
/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            if (*n1ptr++ != 0)
            {
                /* Magnitude of n1 > n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (1);
                else
                    return (-1);
            }
    }
    else
    {
        for (count = n2->n_scale-n1->n_scale; count>0; count--)
            if (*n2ptr++ != 0)
            {
                /* Magnitude of n1 < n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (-1);
                else
                    return (1);
            }
    }
}
else
{
    for (count = n2->n_scale-n1->n_scale; count>0; count--)
        if (*n2ptr++ != 0)
        {
            /* Magnitude of n1 < n2. */
            if (!use_sign || n1->n_sign == PLUS)
                return (-1);
            else
                return (1);
        }
/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
    int  count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;

    /* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0)
        return FALSE;
else
    return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
   Specifically, all but the last digit is 0 and the last digit is 1.
   Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
    char *nptr;

    /* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

    /* Initialize */
    count = num->n_len + scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0 && (count != 1 || *--nptr != 1))
        return FALSE;
    else
        return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is
 returned. The signs of N1 and N2 are ignored.
 SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char*n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

/* Prepare sum. */
sum_scale = MAX (n1->n_scale, n2->n_scale);
sum_digits = MAX (n1->n_len, n2->n_len) + 1;
sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > sum_scale)
{
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
    for (count = scale_min - sum_scale; count > 0; count--)
        *sumptr++ = 0;
}

/* Start with the fraction part. Initialize the pointers. */
n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part. First copy the longer fraction. */
if (n1bytes != n2bytes)
{
    if (n1bytes > n2bytes)
        while (n1bytes > n2bytes)
        {
            *sumptr-- = *n1ptr--; n1bytes--;
        }
    else
        while (n2bytes > n1bytes)
        {
            *sumptr-- = *n2ptr--; n2bytes--;
        }
}

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) & (n2bytes > 0))
{
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
    {
        carry = 0;
        sumptr--;
        n1bytes--;
    }
n2bytes--; 
}

/* Now add carry the longer integer part. */
if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
    {
        *sumptr = *n1ptr-- + carry;
        if (*sumptr > (BASE-1))
        {
            carry = 1;
            *sumptr -= BASE;
        }
        else
        carry = 0;
        sumptr--;
    }
/* Set final carry. */
if (carry == 1)
    *sumptr += 1;

/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;

/* Perform subtraction: N2 is subtracted from N1 and the value is returned. The signs of N1 and N2 are ignored. Also, N1 is assumed to be larger than N2. SCALE_MIN is the minimum scale of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
    int min_scale, min_len;
    char *n1ptr, *n2ptr, *diffptr;
    int borrow, count, val;

    /* Allocate temporary storage. */
    diff_len = MAX (n1->n_len, n2->n_len);
    diff_scale = MAX (n1->n_scale, n2->n_scale);
min_len = MIN (n1->n_len, n2->n_len);
min_scale = MIN (n1->n_scale, n2->n_scale);
diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
{
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
        *diffptr++ = 0;
}

/* Initialize the subtract. */

n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
        *diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
    {
        val = - *n2ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
    } else
    
        borrow = 0;

    *diffptr-- = val;
}

/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
{
val = *n1ptr-- - *n2ptr-- - borrow;
if (val < 0)
{
    val += BASE;
    borrow = 1;
}
else
    borrow = 0;
*difpptr-- = val;
}

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    { val = *n1ptr-- - borrow;
      if (val < 0)
      {
          val += BASE;
          borrow = 1;
      }
      else
          borrow = 0;
      *difpptr-- = val;
    }
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;
}

/* Here is the full subtract routine that takes care of negative numbers.
   N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
   is the minimum scale for the result. */
void
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign != n2->n_sign)
{  
diff = _bc_do_add (n1, n2, scale_min);
diff->n_sign = n1->n_sign;
}
else
{
  /* subtraction must be done. */
  /* Compare magnitudes. */
  cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
  switch (cmp_res)
  {
    case -1:
      /* n1 is less than n2, subtract n1 from n2. */
      diff = _bc_do_sub (n2, n1, scale_min);
      diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
      break;
    case 0:
      /* They are equal! return zero! */
      res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
      diff = bc_new_num (1, res_scale);
      memset (diff->n_value, 0, res_scale+1);
      break;
    case 1:
      /* n2 is less than n1, subtract n2 from n1. */
      diff = _bc_do_sub (n1, n2, scale_min);
      diff->n_sign = n1->n_sign;
      break;
  }
  /* Clean up and return. */
  bc_free_num (result);
  *result = diff;
}

/* Here is the full add routine that takes care of negative numbers. 
N1 is added to N2 and the result placed into RESULT. SCALE_MIN 
is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
  
  bc_num n1, n2, *result;
  int scale_min;
{
  bc_num sum = NULL;
  int cmp_res;
  int res_scale;
if (n1->n_sign == n2->n_sign)
{
    sum = _bc_do_add (n1, n2, scale_min);
    sum->n_sign = n1->n_sign;
}
else
{
    /* subtraction must be done. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
    switch (cmp_res)
    {
    case -1:
        /* n1 is less than n2, subtract n1 from n2. */
        sum = _bc_do_sub (n2, n1, scale_min);
        sum->n_sign = n2->n_sign;
        break;
    case 0:
        /* They are equal! return zero with the correct scale! */
        res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
        sum = bc_new_num (1, res_scale);
        memset (sum->n_value, 0, res_scale+1);
        break;
    case 1:
        /* n2 is less than n1, subtract n2 from n1. */
        sum = _bc_do_sub (n1, n2, scale_min);
        sum->n_sign = n1->n_sign;
    }
}

/* Clean up and return. */
bc_free_num (result);
*result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
int length, scale;
char *value;
{
bc_num temp;

if (_bc_Free_list != NULL) {
temp = _bc_Free_list;
_bc_Free_list = temp->n_next;
} else {
temp = (bc_num) malloc (sizeof(bc_struct));
if (temp == NULL) bc_out_of_memory ();
}
temp->n_sign = PLUS;
temp->n_len = length;
temp->n_scale = scale;
temp->n.refs = 1;
temp->n_ptr = NULL;
temp->n_value = value;
return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
int full_scale)
{
char *n1ptr, *n2ptr, *pvptr;
char *n1end, *n2end;/* To the end of n1 and n2. */
int indx, sum, prodlen;

prodlen = n1len+n2len+1;

*prod = bc_new_num (prodlen, 0);

n1end = (char *) (n1->n_value + n1len - 1);
n2end = (char *) (n2->n_value + n2len - 1);
pvptr = (char *) ((*prod)->n_value + prodlen - 1);
sum = 0;

/* Here is the loop... */
for (indx = 0; indx < prodlen-1; indx++)
{
n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
n2ptr = (char *) (n2end - MIN(indx, n2len-1));
while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
sum += *n1ptr-- * *n2ptr++;
*pvptr-- = sum % BASE;
sum = sum / BASE;
/* A special adder/subtractor for the recursive divide and conquer multiply algorithm. Note: if sub is called, accum must be larger that what is being subtracted. Also, accum and val must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
  signed char *accp, *valp;
  int  count, carry;

  count = val->n_len;
  if (val->n_value[0] == 0)
    count--;
  assert (accum->n_len+accum->n_scale >= shift+count);

  /* Set up pointers and others */
  accp = (signed char *) (accum->n_value +
    accum->n_len + accum->n_scale - shift - 1);
  valp = (signed char *) (val->n_value + val->n_len - 1);
  carry = 0;

  if (sub) {
    /* Subtraction, carry is really borrow. */
    while (count--) {
      *accp -= *valp-- + carry;
      if (*accp < 0) {
        carry = 1;
        *accp-- += BASE;
      } else {
        carry = 0;
        accp--;
      }
    }
    while (carry) {
      *accp -= carry;
      if (*accp < 0)
        *accp-- += BASE;
      else
        carry = 0;
    }
  } else {
    /* Addition */
    while (count--) {
      *accp += *valp--;
      if (*accp >= BASE) { /* Accum too big */
        *accp -= BASE;
      } else { /* Accum okay */
        carry = 0;
        accp--;
      }
    }
  }
}
*accp += *valp-- + carry;
if (*accp > (BASE-1)) {
    carry = 1;
    *accp-- -= BASE;
} else {
carry = 0;
accp--;
}
while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
*accp-- -= BASE;
else
    carry = 0;
}
}
}

/* Recursive divide and conquer multiply algorithm.
   Based on
   Let u = u0 + u1*(b^n)
   Let v = v0 + v1*(b^n)
   Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0

   B is the base of storage, number of digits in u1,u0 close to equal.
   */
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
               int full_scale)
{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;
    bc_num m1, m2, m3, d1, d2;
    int n, prodlen, m1zero;
    int d1len, d2len;

    /* Base case? */
    if (((ulen+vlen) < mul_base_digits
         || ulen < MUL_SMALL_DIGITS
         || vlen < MUL_SMALL_DIGITS ) {
        _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
        return;
    }

    /* Calculate n -- the u and v split point in digits. */
    n = (MAX(ulen, vlen)+1) / 2;
/* Split u and v. */
if (ulen < n) {
    u1 = bc_copy_num (_zero_);
    u0 = new_sub_num (ulen, 0, u->n_value);
} else {
    u1 = new_sub_num (ulen-n, 0, u->n_value);
    u0 = new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
    v1 = bc_copy_num (_zero_);
    v0 = new_sub_num (vlen, 0, v->n_value);
} else {
    v1 = new_sub_num (vlen-n, 0, v->n_value);
    v0 = new_sub_num (n, 0, v->n_value+vlen-n);
}
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
_bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
  _bc_shift_addsub (*prod, m1, 2*n, 0);
  _bc_shift_addsub (*prod, m1, n, 0);
}
  _bc_shift_addsub (*prod, m3, n, 0);
  _bc_shift_addsub (*prod, m3, 0, 0);
  _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);
/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
*/
void
bc_multiply (n1, n2, prod, scale)
  bc_num n1, n2, *prod;
  int scale;
{
  bc_num pval;
  int len1, len2;
  int full_scale, prod_scale;

  /* Initialize things. */
  len1 = n1->n_len + n1->n_scale;
  len2 = n2->n_len + n2->n_scale;
  full_scale = n1->n_scale + n2->n_scale;
  prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

  /* Do the multiply */
  _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);
/* Assign to prod and clean up the number. */
pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
pval->n_value = pval->n_ptr;
pval->n_len = len2 + len1 + 1 - full_scale;
pval->n_scale = prod_scale;
_bc_rm_leading_zeros (pval);
if (bc_is_zero (pval))
  pval->n_sign = PLUS;
bc_free_num (prod);
*prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.
NUM (with SIZE digits) is multiplied by DIGIT and the result is
placed into RESULT. It is written so that NUM and RESULT can be
the same pointers. */

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
    {
      if (digit == 1)
          memcpy (result, num, size);
      else
      {
        /* Initialize */
        nptr = (unsigned char *) (num+size-1);
        rptr = (unsigned char *) (result+size-1);
        carry = 0;

        while (size-- > 0)
        {
          value = *nptr-- * digit + carry;
          *rptr-- = value % BASE;
          carry = value / BASE;
        }

        if (carry != 0) *rptr = carry;
      }
    }
int bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
    bc_num qval;
    unsigned char *num1, *num2;
    unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
    int  scale1, val;
    unsigned int  len1, len2, scale2, qdigits, extra, count;
    unsigned int  qdig, qguess, borrow, carry;
    unsigned char *mval;
    char zero;
    unsigned int  norm;

    /* Test for divide by zero. */
    if (bc_is_zero (n2)) return -1;

    /* Test for divide by 1. If it is we must truncate. */
    if (n2->n_scale == 0)
        {
        if (n2->n_len == 1 && *n2->n_value == 1)
            {
            qval = bc_new_num (n1->n_len, scale);
            qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
            memset (&qval->n_value[n1->n_len-1],0,scale);
            memcpy (qval->n_value, n1->n_value,
                n1->n_len + MIN(n1->n_scale,scale));
            bc_free_num (quot);
            *quot = qval;
            }
        }

    /* Set up the divide. Move the decimal point on n1 by n2's scale. */
    /* Remember, zeros on the end of num2 are wasted effort for dividing. */
    scale2 = n2->n_scale;
    n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
    while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

    /* The full division routine. This computes N1 / N2. It returns */
    0 if the division is ok and the result is in QUOT. The number of */
    digits after the decimal point is SCALE. It returns -1 if division */
    by zero is tried. The algorithm is found in Knuth Vol 2. p237. */
len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
    extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
    {
        n2ptr++;
        len2--;
    }

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
    {
        qdigits = scale+1;
        zero = TRUE;
    }
else
    {
        zero = FALSE;
        if (len2>len1)
            qdigits = scale+1; /* One for the zero integer part. */
        else
            qdigits = len1-len2+scale+1;
    }

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale, scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory();

/* Now for the full divide algorithm. */
if (!zero)
/* Normalize */
norm = 10 / ((int)*n2ptr + 1);
if (norm != 1)
{
_one_mult (num1, len1+scale1+extra+1, norm, num1);
_one_mult (n2ptr, len2, norm, n2ptr);
}

/* Initialize divide loop. */
qdig = 0;
if (len2 > len1)
qptr = (unsigned char *) qval->n_value+len2-len1;
else
qptr = (unsigned char *) qval->n_value;

/* Loop */
while (qdig <= len1+scale-len2)
{
/* Calculate the quotient digit guess. */
if (*n2ptr == num1[qdig])
qguess = 9;
else
qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

/* Test qguess. */
if (n2ptr[1]*qguess >
(num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
+ num1[qdig+2])
{
qguess--;
/* And again. */
if (n2ptr[1]*qguess >
(num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
+ num1[qdig+2])
qguess--;
}

/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
*mval = 0;
_one_mult (n2ptr, len2, qguess, mval+1);
ptr1 = (unsigned char *) num1+qdig+len2;
ptr2 = (unsigned char *) mval+len2;
for (count = 0; count < len2+1; count++)
{
val = (int) *ptr1 - (int) *ptr2 - borrow;
if (val < 0)
{
    val += 10;
    borrow = 1;
}
else
    borrow = 0;
*ptr1-- = val;
}

/* Test for negative result. */
if (borrow == 1)
{
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
            carry = 1;
        }
        else
            carry = 0;
        *ptr1-- = val;
    }
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0;/* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
is NULL then that store will be omitted.
*/

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;

    /* Calculate final scale. */
    rscale = MAX (num1->n_scale, num2->n_scale+scale);
    bc_init_num(&temp);

    /* Calculate it. */
    bc_divide (num1, num2, &temp, scale);
    if (quot)
        quotient = bc_copy_num (temp);
    bc_multiply (temp, num2, &temp, rscale);
    bc_sub (num1, temp, rem, rscale);
    bc_free_num (&temp);

    if (quot)
        { 
        bc_free_num (quot);
        *quot = quotient;
        }

    return 0;/* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
```c
/* Raise BASE to the EXPO power, reduced modulo MOD. The result is placed in RESULT. If a EXPO is not an integer, only the integer part is used. */

int
bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
    bc_num power, exponent, parity, temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero(mod)) return -1;
    if (bc_is_neg(expo)) return -1;

    /* Set initial values. */
    power = bc_copy_num (base);
    exponent = bc_copy_num (expo);
    temp = bc_copy_num (_one_);
    bc_init_num(&parity);

    /* Check the base for scale digits. */
    if (base->n_scale != 0)
        bc_rt_warn ("non-zero scale in base");

    /* Check the exponent for scale digits. */
    if (exponent->n_scale != 0)
        {  
        bc_rt_warn ("non-zero scale in exponent");
        bc_divide (exponent, _one_, &exponent, 0); /*truncate */
    }

    /* Check the modulus for scale digits. */
    if (mod->n_scale != 0)
        bc_rt_warn ("non-zero scale in modulus");

    /* Do the calculation. */
```
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
{
        (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
        if ( !bc_is_zero(parity) )
        {
                bc_multiply (temp, power, &temp, rscale);
                (void) bc_modulo (temp, mod, &temp, scale);
        }

        bc_multiply (power, power, &power, rscale);
        (void) bc_modulo (power, mod, &power, scale);
}

/* Assign the value. */
bc_free_num (&power);
broadcast &result);
*result = temp;
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT. */
/* Maximum exponent is LONG_MAX. If a NUM2 is not an integer, */
/* only the integer part is used. */

void
bc_raise (num1, num2, result, scale)
        bc_num num1, num2, *result;
        int scale;
{
        bc_num temp, power;
        long exponent;
        int rscale;
        int pwrscalscale;
        int calcscale;
        char neg;

        /* Check the exponent for scale digits and convert to a long. */
        if (num2->n_scale != 0)
                bc_rt_warn ("non-zero scale in exponent");
        exponent = bc_num2long (num2);
        if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
                bc_rt_error ("exponent too large in raise");

        /* Special case if exponent is a zero. */
        if (exponent == 0)
bc_free_num (result);
*result = bc_copy_num (_one_);
return;
}

/* Other initializations. */
if (exponent < 0)
{
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
}
else
{
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

/* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
}
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
        calcscale = pwrscale + calcscale;
        bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

/* Assign the value. */
if (neg)
{
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
} else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
        (*result)->n_scale = rscale;
}
bc_free_num (&power);

/* Take the square root NUM and return it in NUM with SCALE digits
   after the decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
    int rscale, cmp_res, done;
    int cscale;
    bc_num guess, guess1, point5, diff;

    /* Initial checks. */
    cmp_res = bc_compare (*num, _zero_);
    if (cmp_res < 0)
        return 0;/* error */
    else
    {
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_zero_);
            return 1;
        }
        cmp_res = bc_compare (*num, _one_);
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_one_);
            return 1;
        }
        /* Initialize the variables. */
        rscale = MAX (scale, (*num)->n_scale);
        bc_init_num(&guess);
        bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num(1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1.  Guess should start at 1. */
    guess = bc_copy_num(_one_);
cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1.  Guess should start at 10^(exp/2). */
    bc_int2num(&guess,10);

    bc_int2num(&guess1,(*num)->n_len);
    bc_multiply(guess1,point5,&guess1,0);
guess1->n_scale = 0;
    bc_raise(guess,guess1,&guess,0);
    bc_free_num(&guess1);
cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num(&guess1);
    guess1 = bc_copy_num(guess);
    bc_divide(*num,guess,&guess,cscale);
    bc_add(guess,guess1,&guess,0);
    bc_multiply(guess,point5,&guess,cscale);
    bc_sub(guess,guess1,&diff,cscale+1);
    if (bc_is_near_zero(diff,cscale))
    {
        if (cscale < rscale+1)
            cscale = MIN(cscale*3,rscale+1);
        else
            done = TRUE;
    }
}

/* Assign the number and clean up. */
bc_free_num(num);
bc_divide(guess,_one_num,rscale);
bc_free_num(&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}

/* The following routines provide output for bcd numbers package
using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
  long  digit;
  struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ";

/* A special output routine for "multi-character digits." Exactly
 SIZE characters must be output for the value VAL. If SPACE is
 non-zero, we must output one space before the number. OUT_CHAR
 is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
  long val;
  int size, space;
#ifdef __STDC__
  void (*out_char)(int);
#else
  void (*out_char)();
#endif
{
  char digits[40];
  int len, ix;

  if (space) (*out_char) (');
  sprintf (digits, "%ld", val);
  len = strlen (digits);
  while (size > len)
  {
    (*out_char) ('0');
    size--;
  }
  for (ix=0; ix < len; ix++)
    (*out_char) (digits[ix]);
/ * Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
    char *nptr;
    int index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
    if (bc_is_zero (num))
        (*out_char) ('0');
    else
        if (o_base == 10)
            
                /* The number is in base 10, do it the fast way. */
                nptr = num->n_value;
                if (num->n_len > 1 || *nptr != 0)
                    for (index=num->n_len; index>0; index--)
                        (*out_char) (BCD_CHAR(*nptr++));
                else
                    nptr++;

                if (leading_zero && bc_is_zero (num))
                    (*out_char) ('0');

                /* Now the fraction. */
                if (num->n_scale > 0)
                    
                        /* The number is not in base 10, output it the slow way */
                        nptr = num->n_value;
                        if (num->n_len > 1 || *nptr != 0)
                            for (index=num->n_len; index>0; index--)
                                (*out_char) (BCD_CHAR(*nptr++));
                        else
                            nptr++;

                        if (leading_zero && bc_is_zero (num))
                            (*out_char) ('0');

                        /* Now the fraction. */
                        if (num->n_scale > 0)
                            
                                /* The number is not in base 10, output it the slow way */
                                nptr = num->n_value;
                                if (num->n_len > 1 || *nptr != 0)
                                    for (index=num->n_len; index>0; index--)
                                        (*out_char) (BCD_CHAR(*nptr++));
                                else
                                    nptr++;
                                if (leading_zero && bc_is_zero (num))
                                    (*out_char) ('0');
else
{
/* special case ... */
if (leading_zero && bc_is_zero (num))
(*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bci_num (&int_part);
bcd (num, _one_, &int_part, 0);
bci_num (&frac_part);
bci_num (&cur_dig);
bci_num (&base);
bci (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bci2num (&base, o_base);
bci_num (&max_o_digit);
bci2num (&max_o_digit, o_base-1);

/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
{
    bc_modulo (int_part, base, &cur_dig, 0);
temp = (stk_rec *) malloc (sizeof(stk_rec));
if (temp == NULL) bc_out_of_memory();
temp->digit = bc_num2long (cur_dig);
temp->next = digits;
digits = temp;
bci (int_part, base, &int_part, 0);
}
/* Print the digits on the stack. */
if (digits != NULL)
{
    /* Output the digits. */
    while (digits != NULL)
    {
        temp = digits;
digits = digits->next;
if (o_base <= 16)
    (*out_char) (ref_str[ (int) temp->digit]);
else
    bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
free (temp);
/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
  (*out_char) ('.');
  pre_space = 0;
  t_num = bc_copy_num (_one_);
  while (t_num->n_len <= num->n_scale) {
    bc_multiply (frac_part, base, &frac_part, num->n_scale);
    fdigit = bc_num2long (frac_part);
    bc_int2num (&int_part, fdigit);
    bc_sub (frac_part, int_part, &frac_part, 0);
    if (o_base <= 16)
      (*out_char) (ref_str[fdigit]);
    else {
      bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
      pre_space = 1;
    }
  }  
  bc_multiply (t_num, base, &t_num, 0);
}
bc_free_num (&t_num);

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
}

/* Convert a number NUM to a long. The function returns only the integer 
part of the number. For numbers that are too large to represent as 
a long, this function returns a zero. This can be detected by checking 
the NUM for zero after having a zero returned. */

long
bc_num2long (num)
  bc_num num;
{
  long val;
  char *nptr;
  int  index;

  /* Extract the int value, ignore the fraction. */
  val = 0;
nptr = num->n_value;
for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
    val = val*BASE + *nptr++;

/* Check for overflow. If overflow, return zero. */
if (index>0) val = 0;
if (val < 0) val = 0;

/* Return the value. */
if (num->n_sign == PLUS)
    return (val);
else
    return (-val);
}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
    bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
    int ix = 1;
    char neg = 0;

    /* Sign. */
    if (val < 0)
        {  
            neg = 1;
            val = -val;
        }

    /* Get things going. */
    bptr = buffer;
    *bptr++ = val % BASE;
    val = val / BASE;

    /* Extract remaining digits. */
    while (val != 0)
        {  
            *bptr++ = val % BASE;
            val = val / BASE;
            ix++; /* Count the digits. */
        }
/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
  *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only. */

char
*num2str (num)
  bc_num num;
{
  char *str, *sptr;
  char *nptr;
  int  index, signch;

  /* Allocate the string memory. */
  signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
  if (num->n_scale > 0)
    str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
  else
    str = (char *) malloc (num->n_len + 1 + signch);
  if (str == NULL) bc_out_of_memory();

  /* The negative sign if needed. */
  sptr = str;
  if (signch) *sptr++ = '-';

  /* Load the whole number. */
  nptr = num->n_value;
  for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr++);

  /* Now the fraction. */
  if (num->n_scale > 0)
  {
    *sptr++ = '.';
    for (index=0; index<num->n_scale; index++)
      *sptr++ = BCD_CHAR(*nptr++);
  }

  /* Terminate the string and return it! */
  *sptr = '\0';
return (str);
}
/* Convert strings to bc numbers. Base 10 only. */

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
    digits = 0;
    strscale = 0;
    zero_int = FALSE;
    if ( (*ptr == '+') || (*ptr == '-'))  ptr++;  /* Sign */
    while (*ptr == '0') ptr++;  /* Skip leading zeros. */
    while (isdigit((int)*ptr)) ptr++, digits++;  /* digits */
    if (*ptr == '.') ptr++;
    while (isdigit((int)*ptr)) ptr++, strscale++;  /* digits */
    if (((*ptr != '\0') || (digits+strscale == 0))
        {
            *num = bc_copy_num (_zero_);
            return;
    }

    /* Adjust numbers and allocate storage and initialize fields. */
    strscale = MIN(strscale, scale);
    if (digits == 0)
    {
        zero_int = TRUE;
        digits = 1;
    }
    *num = bc_new_num (digits, strscale);

    /* Build the whole number. */
    ptr = str;
    if (*ptr == '.')
    {
        (*num)->n_sign = MINUS;
        ptr++;
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr);
/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr);
}
/* pn prints the number NUM in base 10. */
static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ('n');
}
/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;

unsigned char *num;
int len;
{
    int i;
    printf ("%s=", name);
    for (i=0; i<len; i++) printf ("%c", BCD_CHAR(num[i]));
    printf ("\n");
}

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.556 debianutils 4.8.6.1
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1.557 glib 2.48.2 0ubuntu4.4

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1.561 lazy-object-proxy 1.4.3

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Jim Ferguson
Jon Dugan
Feng Qin
Kevin Gibbs
John Estabrook
National Laboratory for Applied Network Research
National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
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**1.582 stuntman 1.2.1**

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1.583 cpio 2.11 27.el7

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1.596 spring-jcl 5.1.17.RELEASE

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1.604 zstd 1.3.8+dfsg-3+deb10u2

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Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Zstd
Source: https://github.com/facebook/zstd
Files-Excluded: appveyor.yml
            circle.yml
            build/*
            programs/windres/*
            .travis.yml
            .buckversion
            .buckconfig
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Files: *
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1.605 python-setuptools 39.0.0

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1.606 opentracing-noop 0.31.0
1.607 javax-ws-rs-api 2.0
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1.609 file 5.32

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1.610 packagegroup-core-boot 1 r17.0
1.610.1 Available under license :
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Summary: Minimal boot requirements
Name: packagegroup-core-boot
Version: 1.0
Release: r17.0
License: MIT
Group: base
Packager: Wind River <info@windriver.com>
BuildRequires: virtual/x86_64-wrs-linux-gcc
BuildRequires: virtual/libc
BuildRequires: virtual/x86_64-wrs-linux-compilerlibs
Requires:busybox
Requires: modutils-initscripts
Requires: busybox-hwclock
Requires: wr-init
Requires: upstart
Requires: udev
Requires: initscripts
Requires: netbase
Requires: base-files
Requires: init-ifupdown
Requires: update-alternatives-opkg
Requires: base-passwd

%description
The minimal set of packages required to boot the system

%package -n packagegroup-wr-boot
Summary: Minimal boot requirements
Group: base
Requires: packagegroup-core-boot

%description -n packagegroup-wr-boot
The minimal set of packages required to boot the system

%package -n packagegroup-core-boot-dbgs
Summary: Minimal boot requirements - Debugging files
Group: devel
Suggests: base-passwd-dbgs
Suggests: initscripts-dbgs
Suggests: upstart-dbgs
Suggests: init-ifupdown-dbgs
Suggests: busybox-hwclock-dbgs
Suggests: udev-dbgs
Suggests: modutils-initscripts-dbgs
Suggests: busybox-dbgs
Suggests: netbase-dbgs
Suggests: update-alternatives-opkg-dbgs
Suggests: base-files-dbgs
Suggests: wr-init-dbgs
Recommends: packagegroup-core-boot = 1.0-r17.0

%description -n packagegroup-core-boot-dbgs
The minimal set of packages required to boot the system. This package contains ELF symbols and related sources for debugging purposes.

%package -n packagegroup-core-boot-devs
Summary: Minimal boot requirements - Development files
Group: devel
Requires: packagegroup-core-boot = 1.0-r17.0
Suggests: base-passwd-devs
Suggests: netbase-devs
Suggests: udev-devs
Suggests: base-files-devs
Suggests: busybox-hwclock-devs
Suggests: modutils-initscripts-devs
Suggests: busybox-devs
Suggests: update-alternatives-opkg-devs
Suggests: wr-init-devs
Suggests: upstart-devs
Suggests: init-ifupdown-devs
Suggests: initscripts-devs

%description -n packagegroup-core-boot-devs
The minimal set of packages required to boot the system. This package contains symbolic links, header files, and related items necessary for
software development.

%package -n packagegroup-core-boot-ptest
Summary: Minimal boot requirements
Group: base

%description -n packagegroup-core-boot-ptest
The minimal set of packages required to boot the system

%package -n packagegroup-wr-boot-dbgs
Summary: Minimal boot requirements
Group: base
Suggests: packagegroup-core-boot-dbgs

%description -n packagegroup-wr-boot-dbgs
The minimal set of packages required to boot the system

%package -n packagegroup-wr-boot-dev
Summary: Minimal boot requirements
Group: base
Suggests: packagegroup-core-boot-dev

%description -n packagegroup-wr-boot-dev
The minimal set of packages required to boot the system

%package -n packagegroup-wr-boot-ptest
Summary: Minimal boot requirements
Group: base

%description -n packagegroup-wr-boot-ptest
The minimal set of packages required to boot the system

%files
%defattr(-,-,-,-)

%files -n packagegroup-wr-boot
%defattr(-,-,-,-)

%files -n packagegroup-core-boot-dbgs
%defattr(-,-,-,-)

%files -n packagegroup-core-boot-dev
%defattr(-,-,-,-)

%prep -n packagegroup-core-boot
echo "include logs and patches, Please check them in SOURCES"

Found in path(s):
1.611 audit 2.8.4 3
1.611.1 Available under license:

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Version 2.1, February 1999

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `

```scala
val x: ((Int, Int) => Int) = (((a, b)) => a)
```

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,

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```scala
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
```

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple3,

or consider a pattern matching anonymous function: `

```scala
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```

three errors found

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/ApplicationEventPublisherAware.java
jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/ui/context/Theme.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/context/event/ContextStoppedEvent.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/ui/context/HierarchicalThemeSource.java

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/instrument/classloading/websphere/WebSphereClassLoaderAdapter.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/annotation/CachingConfigurer.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/jndi/JndiLocatorSupport.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/interceptor/CacheOperationExpressionEvaluator.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/validation/BeanPropertyBindingResult.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scheduling/support/CronSequenceGenerator.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/life/package/Lifecycle.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/support/LiveBeansView.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ConfigurationClassUtils.java
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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/interceptor/VariableNotAvailableException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ApplicationContextInitializer.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/cache/interceptor/CacheableOperation.java
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/**
 * Indicates that a component is only eligible for registration when all
 * [ @linkplain #value specified conditions] match.
 *
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see [ @link Condition] for details).
 *
 * <p>The [ @code @Conditional] annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * [ @code @Component], including [ @link Configuration @Configuration] classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype annotations</li>
 * <li>as a method-level annotation on any [ @link Bean @Bean] method</li>
 * </ul>
 *
 * <p>If a [ @code @Configuration] class is marked with [ @code @Conditional],
 * all of the [ @code @Bean] methods, [ @link Import @Import] annotations, and
 * [ @link ComponentScan @ComponentScan] annotations associated with that
 * class will be subject to the conditions.
 *
 * <p><strong>NOTE</strong>: Inheritance of [ @code @Conditional] annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * [ @code @Conditional] itself is not declared as
 * [ @link java.lang.annotation.Inherited @Inherited]; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
* {code @}Conditional must not be declared as {code @}Inherited.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/event/EventListenerFactory.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/remoting/RemoteTimeoutException.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/scripting/config/LangNamespaceHandler.java
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
* *
* @author Stephane Nicoll
* @since 4.1
*/

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jar/org/springframework/ui/ModelMapExtensions.kt
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jar/org/springframework/ui/ModelExtensions.kt

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/jdbc/config/AbstractJndiLocatingBeanDefinitionParser.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/validation/beanvalidation/MethodValidationPostProcessor.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/context/annotation/ConfigurationClassParser.java
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 * [@link FactoryBean] that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary [ @code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * @exposes the [ @code MBeanServer] for bean references.
 * This FactoryBean is a direct alternative to [ @link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * @see the javadocs for WebSphere's
 *
 * @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/scripting/support/StandardScriptFactory.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/context/support/AbstractCacheManager.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/cache/support/AbstractCacheManager.java
* /opt/cola/permits/1141637473_1615091518.17/0/spring-context-5-1-17-release-sources-
jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
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jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
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1.625 pycrypto 2.6.1
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Last updated: 2009-02-28

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=== EOF ===

1.626 jboss-connector-api-1-7-spec

2.0.0.Final

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jsward@bzip.org
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1.637 zlib 1.2.8
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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

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   Jean-loup Gailly        Mark Adler
   jloup@gzip.org          madler@alumni.caltech.edu

   The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.638 aws-cli 1.19.77

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1.639 json-schema-validator 1.0.46

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Json-schema-validator

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1.641 iputils 20160308-10.el7

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1.642 leaflet 0.7.3

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1.643 vdx-wildfly 1.1.6

1.644 init-ifupdown 1
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1.645 glib 2.54.3 0

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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
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maintained by Andreas Metzler <ametzler@debian.org> Eric Dorland
<eric@debian.org>, James Westby <jw+debian@jameswestby.net>

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Copyright (C) 2013-2015 Jussi Kivilinna
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Authors with a FSF copyright assignment

LIBGCRYPT  Werner Koch  2001-06-07
Assigns past and future changes.
Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org
Designed and implemented Libgcrypt.

GNUPG Matthew Skala  1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada  1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany  1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus  1998-09-18
Disclaims changes.
nh@df.lth.se
Weak key patches.

GNUPG Rmi Guyomarch  1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY  g10 Code GmbH  2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz  2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson  2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
CTS/MAC flags, self test improvements)
simon@josefsson.org
LIBGCRYPT  Moritz Schulte  2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS  Nikolaos Mavrogiannopoulos  2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT  The Written Word  2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT  Brad Hards  2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT  Hye-Shik Chang  2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT  Werner Dittmann  2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG  David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT  Andrey Jivsov  2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)

LIBGCRYPT  Ulrich Miller  2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCRYPT  Vladimir Serbinenko  2012-04-26
Assigns Past and Future Changes
phcoder@gmail.com
(cipher/serpent.c)

Authors with a DCO
==================
Christian Aistleitner <christian@quelltextlich.at>
2013-02-26:20130226110144GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>
2013-07-13:20130713144407GA27334@fangorn.rup.mentorg.com:

Dmitry Kasatkin <dmitry.kasatkin@intel.com>
2012-12-14:50CAE2DB.80302@intel.com:

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>
2012-11-15:20121115172331.150537dzb5i6jmy8@www.dalek.fi:

Jussi Kivilinna <jussi.kivilinna@iki.fi>
2013-05-06:5186720A.4090101@iki.fi:

Rafal Carr <funman@videolan.org>
2012-04-20:4F91988B.1080502@videolan.org:

Sergey V. <sftp.mtuci@gmail.com>
2013-11-07:2066221.51Ya7Yq760@darkstar:

Tom Mrz <tm@t8m.info>
2012-04-16:1334571250.5056.52.camel@vespa.frost.loc:

Werner Koch <wk@gnupg.org> (g10 Code GmbH)
2012-12-05:87obi8u4h2.fsf@vigenere.g10code.de:

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfe2bb5b6,
Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
  classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
  process, the shell script was created.

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**1.667 leaflet-loading 0.1.16**

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1.669 language-pack-en 16.04+20161009

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That's all there is to it!
*uganda.txt*  For Vim version 8.1. Last change: 2018 May 17

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== end of license ==

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
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Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable support.
items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.
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The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

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Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

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1.684 beautiful-soup 4.4.1 1

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### 1.691 angular-uuid 0.1.0

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1.693 pycparser 2.20
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1.694 cpp 4.8.5 39.el7

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```
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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dossers (dossers@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(??)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dossers provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (age@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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* m4/ax_func_which_gethostbyname_r.m4

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Version 3.1, 31 March 2009

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This package is used for testing builds of ncurses.

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```

1.700 shadow 4.6-5.el7

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1.707 python27-boto2core 1.17.45

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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for J1Y receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
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11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <bj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpswEEP
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to
comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.nrc.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <rneal@ntp.org> Bancomm refclock and config/parse code maintenance
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45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware 1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto: takao_abe@xurb.jp
2. mailto: mark_andrews@isc.org
3. mailto: altmeier@atsoft.de
4. mailto: vbaiz@mailman1.intel.co
5. mailto: kirkwood@striderfm.intel.com
6. mailto: michael.barone@lmco.com
7. mailto: karl1@owl.HQ.ileaf.com
8. mailto: greg.brackley@bigfoot.com
9. mailto: Marc.Brett@westgeo.com
10. mailto: Piete.Brooks@cl.cam.ac.uk
11. mailto: nelson@bolyard.me
12. mailto: Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto: reg@dwf.com
14. mailto: clift@nl.csiro.au
15. mailto: casey@csc.co.za
16. mailto: Sven_Dietrich@trimble.COM
17. mailto: dundas@salt.jpl.nasa.gov
18. mailto: duwe@immd4.informatik.uni-erlangen.de
19. mailto: dennis@mrbill.canet.ca
20. mailto: jhay@icomtek.csir.co.za
21. mailto: davehart@davehart.com
22. mailto: neoclock4x@linum.com
23. mailto: greg@herald.usask.ca
24. mailto: iglesias@uci.edu
25. mailto: jagubox.gsfc.nasa.gov
26. mailto: jbj@chatham.usdesign.com
27. mailto: Hans.Lambermont@nl.origin-it.com
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    owner = "The University of Delaware and Network Time Foundation";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = ntp;
};

long-opts;
config-header = config.h;
environrc;
nono-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `eval VERSION=\`sed -e 's/\).*\[\]/\1/' -e 's/\]/\1\]/' < ../sntp/m4/version.m4` [ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION;

version-value = "" /* Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
// sub-name = version;
// sub-text = 's/#VERSION#/<<version>>/g';
//
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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

- Takao Abe (takao_ab@xurb.jp) - Clock driver for JJY receivers
- Mark Andrews (mark_andrews@isc.org) - Leitch atomic clock controller
- Bernd Altmeier (altmeier@atlsoft.de) - hopf Elektronik serial line and PCI-bus devices
- Viraj Bais (vbais@mailman1.intel.com) - Claytont Kirkwood (kirkwood@striderfm.intel.com) - port to WindowsNT 3.5
- Michael Barone (michael.barone@lmco.com) - Magnavox GPS clock driver
- Karl Berry (karl@owl.HQ.ileaf.com) - syslog to file option
- Greg Brackley (greg.brackley@bigfoot.com) - Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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- Jean-Francois Boudreault (Jean-Francois.Boudreault@viagenie.qc.ca) - IPv6 support
- Reg Clemens (reg@dwf.com) - Oncore driver (Current maintainer)
- Steve Clift (clift@ml.csiro.au) - OMEGA clock driver
- Casey Crellin (casey@csc.co.za) - vxWorks (Tornado) port and help with target configuration
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- Torsten Duwe (duwe@immd4.informatik.uni-erlangen.de) - Linux port
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- John Hay (jhay@icomtek.csir.co.za) - IPv6 support
testing</li>
<li><a href="mailto:%20davehart@davehart.com">Dave Hart <davehart@davehart.com></a> General maintenance, Windows port interpolation rewrite</li>
<li><a href="mailto:%20neoclock4x@linum.com">Claas Hilbrecht <neoclock4x@linum.com></a> NeoClock4X clock driver</li>
<li><a href="mailto:%20glenn@herald.usask.ca">Glenn Hollinger <glenn@herald.usask.ca></a> GOES clock drivers</li>
<li><a href="mailto:%20iglesias@uci.edu">Mike Iglesias <iglesias@uci.edu></a> DEC Alpha port</li>
<li><a href="mailto:%20jagubox.gsfc.nasa.gov">Jim Jagielski <jim@jagubox.gsfc.nasa.gov></a> A/UX port</li>
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<li><a href="mailto:%20phk@FreeBSD.ORG">Poul-Henning Kamp <phk@FreeBSD.ORG></a> Oncore driver (Original author)</li>
<li><a href="http://www4.informatik.uni-erlangen.de/%7ekardel">Frank Kardel</a> PARSE (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>
<li><a href="mailto:kuehn@ntp.org">Johannes Maximilian Kuehn <kuehn@ntp.org></a> Rewrote sntp to comply with NTPv4 specification, <tt>ntpq saveconfig</tt></li>
<li><a href="mailto:%20jones@hermes.chpc.utexas.edu">William L. Jones <jones@hermes.chpc.utexas.edu></a> RS/6000 AIX modifications, HPUX modifications</li>
<li><a href="mailto:%20dkatz@cisco.com">Dave Katz <dkatz@cisco.com></a> RS/6000 AIX port</li>
<li><a href="mailto:%20leres@ee.lbl.gov">Craig Leres <leres@ee.lbl.gov></a> 4.4BSD port, ppsclock, Magnavox GPS clock driver</li>
<li><a href="mailto:%20lindholm@ucs.ubc.ca">George Lindholm <lindholm@ucs.ubc.ca></a> SunOS 5.1 port</li>
<li><a href="mailto:%20louie@ni.umd.edu">Louis A. Mamakos <louie@ni.umd.edu></a> MD5-based authentication</li>
<li><a href="mailto:%20thorinn@diku.dk">Lars H. Mathiesen <thorinn@diku.dk></a> adaptation of foundation code for Version 3 as specified in RFC-1305</li>
<li><a href="mailto:%20mayer@ntp.org">Danny Mayer <mayer@ntp.org></a> Network I/O, Windows Port, Code Maintenance</li>
<li><a href="mailto:%20mills@udel.edu">David L. Mills <mills@udel.edu></a> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36</li>
<li><a href="mailto:%20moeller@gwdgv1.dnet.gwdg.de">Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de></a> VMS port</li>
<li><a href="mailto:%20mogul@pa.dec.com">Jeffrey Mogul <mogul@pa.dec.com></a> ntptrace utility</li>
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<li><a href="mailto:%20neal@ntp.org">Rob Neal <neal@ntp.org></a> Bancomm refclock and config/parse code maintenance</li>
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<li><a href="mailto:%20brian.utterback@oracle.com">Brian Utterback <brian.utterback@oracle.com></a> General codebase, Solaris issues</li>
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<li><a href="mailto:%20Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de></a> corrected and validated HTML documents according to the HTML DTD</li>
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1.721 glibc 2.28-10

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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)
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This package is used for testing builds of ncurses.

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1.729 python-secretstorage 2.3.1

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This is the Debian version of the newt library.
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The original package was put together by Enrique Zanardi
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1.732 cyrus-sasl 2.1.26.dfsg1-14ubuntu0.1

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.740 python-setuptools 50.3.2

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1.744 opensaml-xacml-api 3.3.1

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.768 wildfly-core-management-subsystem

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Bnd-LastModified: 1362700108682
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Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffer Java API
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c5f2bb56.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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  dr-xr-xr-x  2 0 0 [LSN  24]  2048 Mar 05 2005 16:12:25 copy
  lr-xr-xr-x  1 0 0 [LSN  27]   7 Mar 05 2005 15:26:00 Copy2 -> COPYING
  -r-r-r--  1 0 0 [LSN  27]  17992 Mar 05 2005 15:25:51 COPYING
  br-r-r--  1 0 0 [LSN  36]   0 Mar 05 2005 15:32:05 ld0
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  lr-xr-xr-x  1 0 0 [LSN  36]  18 Mar 05 2005 15:51:05 COPYING -> ../copying/COPYING

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/
  d [LSN  23]  2048 Jan 05 2006 21:50:19 ..
  - [LSN  24] 18002 Jan 05 2006 21:46:30 copying
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  -r-xr-xr-x  1 0 0 [LSN  27]  0 Mar 05 2005 15:26:00  Copy2
  -r--r--r--  1 0 0 [LSN  27]  17992 Mar 05 2005 15:25:51  COPYING
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  uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
  int rcount;
  int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

# ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS
  uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
  int rcount;
  int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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 */

/**
 * A decoder that splits the received @link ByteBuf{s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * @link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * <p>
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * &lt;b&gt;lengthFieldOffset&lt;/b&gt; = &lt;b&gt;0&lt;/b&gt;
 * &lt;b&gt;lengthFieldLength&lt;/b&gt; = &lt;b&gt;2&lt;/b&gt;
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * </pre>
 */
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 
* ch3>2 bytes length field at offset 0, strip header</h3>
* 
* Because we can get the length of the content by calling
* [@link ByteBuf#readableBytes()], you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* 
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
* 
* ch3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
* 
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* <b>initialBytesToStrip</b> = 0
* 
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
The following message is a simple variation of the first example. An extra header value is prepended to the message. The decoder always takes the length of the prepended data into account during frame length calculation.

```
<lengthFieldOffset> = 2 (= the length of Header 1)
<lengthFieldLength> = 3
lengthAdjustment = 0
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
| 0xCAFE   | 0x00000C | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive lengthAdjustment so that the decoder counts the extra header into the frame length calculation.

```
lengthFieldOffset = 0
lengthFieldLength = 3
<lengthAdjustment> = 2 (= the length of Header 1)
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Length   | Header 1 | Actual Content |----->| Length   | Header 1 | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the lengthFieldOffset and the extra header affects the lengthAdjustment. We also specified a non-zero initialBytesToStrip to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify &lt;tt&gt;0&lt;/tt&gt; for &lt;tt&gt;initialBytesToSkip&lt;/tt&gt;.
* &lt;pre&gt;
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* &lt;b&gt;lengthAdjustment&lt;/b&gt; = &lt;b&gt;1&lt;/b&gt; (= the length of HDR2)
* &lt;b&gt;initialBytesToStrip&lt;/b&gt; = &lt;b&gt;3&lt;/b&gt; (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +--------+--------+-------------+      +--------+-------------+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +--------+--------+-------------+      +--------+-------------+
* &lt;/pre&gt;
*
* &lt;h3&gt;2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message&lt;/h3&gt;
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into &lt;tt&gt;lengthAdjustment&lt;/tt&gt;.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* &lt;pre&gt;
* lengthFieldOffset = 1
* lengthFieldLength = 2
* &lt;b&gt;lengthAdjustment&lt;/b&gt; = &lt;b&gt;-3&lt;/b&gt; (= the length of HDR1 + LEN, negative)
* &lt;b&gt;initialBytesToStrip&lt;/b&gt; = &lt;b&gt;3&lt;/b&gt;
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +--------+--------+-------------+      +--------+-------------+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +--------+--------+-------------+      +--------+-------------+
* &lt;/pre&gt;
* @see LengthFieldPrepender
*/

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* /opt/ws_local/PERMITS_SQL/1068412341_1594399210.18/0/netty-codec-4-1-48-final-sources-1-
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1.807 findutils 4.6.0+git+20160126-2

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Upstream Authors:
* GNU find was written by Eric Decker <cire@cisco.com>,
  with enhancements by David MacKenzie <djm@gnu.org>,
  Jay Plett <jay@silence.princeton.nj.us>,
  and Tim Wood <axolotl!tim@toad.com>.
  The idea for -print0 and xargs -0 came from
  Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.
  Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs
  was originally written by Mike Rendell, with enhancements by David
  MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally
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written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

Upstream's AUTHORS lists these major contributors:
Eric B. Decker
Michael Rendell
David J. MacKenzie
Jim Meyering
Tim Wood
Kevin Dalley <kevind@rahul.net>
Paul Eggert <eggert@cs.ucla.edu>
James Youngman <jay@gnu.org>
Jay Plett
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Dmitry V. Levin
Bas van Gompel
Eric Blake <ebb9@byu.net>
Andreas Metzler
Kamil Dudka <kdudka@redhat.com>
Bernhard Voelker <mail@bernhard-voelker.de>

Current upstream maintainer is James Youngman <jay@gnu.org>.

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1.813 python-azure-mgmt-resource 1.2.2
1.814 e2fsprogs 1.44.5 1+deb10u3

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-  
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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.823 jakarta-security-enterprise-api 1.0.2
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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/faces-api

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---

This library, ADAL for Python, will no longer receive new feature improvements. Instead, use the new library [MSAL for Python](https://github.com/AzureAD/microsoft-authentication-library-for-python).

* If you are starting a new project, you can get started with the
if your application is using the previous ADAL Python library, you can follow this [migration guide](https://docs.microsoft.com/en-us/azure/active-directory/develop/migrate-python-adal-msal) to update to MSAL Python.

Existing applications relying on ADAL Python will continue to work.

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# Microsoft Azure Active Directory Authentication Library (ADAL) for Python

`master` branch | `dev` branch | Reference Docs
---------------|-------------|---------------

[Getting Started](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki) | [Docs](https://aka.ms/aaddev) | [Python Samples](https://github.com/Azure-Samples?q=active-directory&language=python) | [Support](README.md#community-help-and-support)

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The ADAL for Python library enables python applications to authenticate with Azure AD and get tokens to access Azure AD protected web resources.

You can learn in detail about ADAL Python functionality and usage documented in the [Wiki](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki).

## Installation and Usage

You can find the steps to install and basic usage of the library under [ADAL Basics](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki/ADAL-basics) page in the Wiki.

## Samples and Documentation

We provide a full suite of [Python sample applications on GitHub](https://github.com/Azure-Samples?q=active-directory&language=python) to help you get started with learning the Azure Identity system. This will include tutorials for native clients and web applications. We also provide full walkthroughs for authentication flows such as OAuth2, OpenID Connect and for calling APIs such as the Graph API.

There are also some [lightweight samples existing inside this repo](https://github.com/AzureAD/azure-activedirectory-library-for-python/tree/dev/sample).

You can find the relevant samples by scenarios listed in this [wiki page for acquiring tokens using ADAL](https://github.com/AzureAD/azure-activedirectory-library-for-python/wiki) for details about the scenarios, usage, and relevant concepts.

The documents on [Auth Scenarios](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-authentication-scenarios#application-types-and-scenarios) and [Auth protocols](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-protocols-openid-connect-code) are recommended reading.

## Versions

This library follows [Semantic Versioning](https://semver.org/).

You can find the changes for each version under [Releases](https://github.com/AzureAD/azure-activedirectory-library-for-python/releases).

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We recommend you use the “adal” tag so we can see it! Here is the latest Q&A on Stack Overflow for ADAL: [https://stackoverflow.com/questions/tagged/adal](https://stackoverflow.com/questions/tagged/adal)

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1.838 glib 2.56.1 5.el7

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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
Ramesh Gupta G
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Axel Haslam
Janet Head
Shivananda Hebbar
Hari Kanigeri
Tony Lindgren
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Ernesto Ramos
Chris Ring
Larry Schiefer
Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
Nischal Varide
Wenbiao Wang
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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<signature of Ty Coon>, 1 April 1990
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)*/
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/* http://www.hypermall.com/*/
/* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY*/
/*interrupts us (except possibly for removal/insertion of the cable?)*/
/* 10/4/97 - began heavy inline documentation of the code. Corrected typos*/
/*and spelling mistakes.*/
/* 10/5/97 - added code to handle PHY interrupts, disable PHY on*/
/*loss of link, and correctly re-enable PHY when link is
re-established. (put back CFG_PHYIE)

Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

Linux driver for the IDT77201 NICStAR PCI ATM controller.
PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
see init_nicstar() for PHY initialization to change this. This driver
expects the Linux ATM stack to support scatter-gather lists
(skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

Implementing minimal-copy of received data:
IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire
SDU, and leave <small_buffer_data> bytes empty at the start. Then
copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer
combined, allow nicstar_free_rx_skb to be called to
recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996
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for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver
Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2.Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
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Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware
Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
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    Dustin Kirkland <kirkland@canonical.com>

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    auth.c pam_auth.h pam.c parse.c screen.c username.c vlock.c vlock.h vt.c
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mentioned in the directory consolefonts.

1.850 jctools-core 3.0.0
1.850.1 Available under license :

No license file was found, but licenses were detected in source scan.

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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    <artifactId>jctools-core</artifactId>
    <groupId>org.jctools</groupId>
    <version>3.0.0</version>
    <name>Java Concurrency Tools Core Library</name>
    <description>Java Concurrency Tools Core Library</description>
    <packaging>bundle</packaging>

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</build>

<distributionManagement>
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<name>jctools-jctools</name>
</repository>
</distributionManagement>

$url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

/licenses>
/license>
<name>Apache License, Version 2.0</name>
$url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
</distribution>
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bnd-LastModified: 1578049665284
Build-Jdk: 1.8.0_232
Built-By: yak
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 3.0.0
Created-By: Apache Maven Bundle Plugin
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
  * /opt/cola/permits/1150945500_1617726836.89/0/jctools-core-3-0-0-4-jar/META-INF/MANIFEST.MF

1.851 apache-log4j 2.13.0

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Version 2.1, February 1999

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1.857 python-cryptography 2.1.4

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

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* HTTPS patch (which inspired HTTPSCconnectionPool)
* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConnectionPool
* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
* Client-verified SSL certificates for HTTPSConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

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* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

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* Cory Benfield <http://lukasa.co.uk/about/>
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  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

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  * Support for non-ASCII header parameters

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  * HTTPResponse.tell() for determining amount received over the wire

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  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HttpHeaders and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>  
* Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>  
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>  
* PEP8 Compliance and Linting  
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>  
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>  
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>  
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>  
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>  
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>  
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>  
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>  
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>  
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>  
* IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>  
* App Engine environment tests.

* John Krauss <https://github.com/talos>  
* Clues to debugging problems with `cryptography` dependency in docs
* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

1.864 cxfjc 3.3.0

1.864.1 Available under license:

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1.871 jsoup 1.10.2

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1.873 lz4 0.0~r131-2ubuntu2
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1.876 yum-utils 1.1.31-54.el7_8

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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Gocheck - A rich testing framework for Go

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 procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/ClientAuth.java

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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-
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1.893 wildfly-clustering-web-extension

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jar/org/wildfly/security/http/cert/WildFlyElytronHttpClientCertProvider.java
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jar/org/wildfly/security/http/cert/ClientCertMechanismFactory.java
No license file was found, but licenses were detected in source scan.

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 */
1.895 python-defaults 3.5.1-3

1.895.1 Available under license:

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes the various releases.

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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"
}

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Go support for Protocol Buffers - Google's data interchange format

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1.902 activation 1.1.1

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}

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// DO NOT EDIT THIS FILE - it is machine generated -*-. c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
 namespace security
 {
 class Permission;
 class PermissionCollection;
 }
 }
}

class java::security::Permission : public java::lang::Object
{

public:
 Permission(java::lang::String *);
 virtual void checkGuard(java::lang::Object *);
}
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();
private:
  static const jlong serialVersionUID = -5636570222231596674LL;
  ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;
public:
  static ::java::lang::Class class$;
};

#endif // __java_security_Permission__
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@c man end
@c man begin COPYRIGHT
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@c end ignore
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@end example

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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *<p><code>Permission</code>’s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 */

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public abstract class Permission implements Guard, Serializable
{
    private static final long serialVersionUID = -5636570222231596674L;

    private String name;

    public Permission(String name)
    {
        this.name = name;
    }

    public void checkGuard(Object obj)
    {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null)
            sm.checkPermission(this);
    }

    public boolean implies(Permission other)
    {
        // Implementation
    }

    // Other methods...
}
* specified <code>Permission</code> is also granted.
*
* @param perm the <code>Permission</code> to test against
* @return true if perm is implied by this
*/
public abstract boolean implies(Permission perm);

/**
* Check to see if this object equals obj. Use <code>implies</code>, rather
* than <code>equals</code>, when making access control decisions.
*
* @param obj the object to compare to
*/
public abstract boolean equals(Object obj);

/**
* This method returns a hash code for this <code>Permission</code>. It
* must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
*
* @return a hash value
*/
public abstract int hashCode();

/**
* Get the name of this <code>Permission</code>.
*
* @return the name
*/
public final String getName()
{
    return name;
}

/**
* This method returns the list of actions for this <code>Permission</code>
* as a <code>String</code>. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read,write".
*
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
* This method returns an empty <code>PermissionCollection</code> object
* that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* `<code>implies</code>`.
*
* `@return` a new `<code>PermissionCollection</code>`
*/
public PermissionCollection newPermissionCollection(){
    return null;
}

/**
 * This method returns a `<code>String</code>` representation of this
 * `<code>Permission</code>` object. This is in the format:
 * `<code>('+ getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>. 
 * 
 * `@return` this object as a `<code>String</code>`
 */
public String toString() {
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals(''))) {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
} // class Permission

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<para>
If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:
</para>

<screen>
<replaceable>program</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>
This program comes with ABSOLUTELY NO WARRANTY; for details type <literal>show w</literal>. This is free software, and you are welcome to redistribute it under certain conditions; type <literal>show c</literal> for details.
</screen>

<para>
The hypothetical commands <literal>show w</literal> and <literal>show c</literal> should show the appropriate parts of the General Public License. Of course, your programs commands might be different; for a GUI interface, you would use an about box.
</para>

<para>
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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non-intermediatelanguagesdesignedforhuman-writtencode,and/orin<br />
JavaVirtualMachinebytecode,intoTargetCode.Thus,forexample,<br />
useofsourcecodegeneratorsandpreprocessorsneednotbeconsidered<br />
partoftheCompilationProcess,sincetheCompilationProcesscanbe<br />
understoodasstartingwiththeoutputofthegeneratorsor<br />
preprocessors.<br />
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If you plan on making copies of the documentation, please let us know.
We can probably offer suggestions.

#!/usr/bin/python
#
# Copyright (C) 2013-2016 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
new files have been added with old years). On the other hand:

update-copyright.pl --this-year libjava

would run the script on just libjava/.

Note that things like --version output strings must be updated before this script is run. There's already a separate procedure for that.

```python
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',
        ])
```
# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltstuff.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
')

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        return True
if os.path.exists (base + '.am'):
    return True

# Skip files produced by autogen
if (os.path.exists (base + '.def')
    and os.path.exists (base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True
return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current, current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '\[0-9\][-0-9,.,\s]+\[0-9\]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w...\]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
self.copyright_re = re.compile (  
  # 1: 'Copyright (C)', etc.  
  '(\[Cc\]opyright'  
  '||\[Cc\]opyrights+\((\[Cc\])\)'  
  '||\[Cc\]opyrights+%s'  
  '||\[Cc\]opyrights+&copy;'  
  '||\[Cc\]opyrights+@copyright{'}  
  'copyright = u\''  
  '@set\{s+copyright\[w-\]+\}')

  # 2: the years.  Include the whitespace in the year, so that  
  # we can remove any excess.  
  '\(\s*\(?\:\.') + ranges + ',\)?'  
  '\[@value\{[\^{}]*\}\]s*\)'

  # 3: 'by ', if used  
  '(by\s+)?'

  # 4: the copyright holder.  Don't allow multiple consecutive  
  # spaces, so that right-margin gloss doesn't get caught  
  # (e.g. gnat_ugn.texi).  
  '\(' + name + '\(?:' + name + ')\)*\)'

  # A regexp for notices that might have slipped by.  Just matching  
  # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of  
  # HTML header markers, so check for 'copyright' and two digits.  
  self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',  
                                        re.IGNORECASE)

  self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')  
  self.holders = { '@copying': '@copying' }  
  self.holder_prefixes = set()

# True to 'quilt add' files before changing them.  
self.use_quilt = False

# If set, force all notices to include this year.  
self.max_year = None

# Goes after the year(s).  Could be ',', '.  
self.separator = ','

def add_package_author (self, holder, canon_form = None):
  if not canon_form:
    canon_form = holder
  self.holders[holder] = canon_form
  index = holder.find ('')
  while index >= 0:
    self.holder_prefixes.add (holder[:index])
def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        else:
            return year
    elif len(string) == 4:
        return year
    else:
        raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value '):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end()::].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2)::].strip()
        if after_years != '':
            self.errors.report(pathname,
                               'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None
# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
             + canon_form
             + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()

    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])
# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)'
elif intro.endswith('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                   file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search(line):
                        self.errors.report(pathname,
                                           'unrecognised copyright: %s'
                                           % line.strip())
                        lines.append(line)
                        line = next_line

                # If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                         self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                         self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):

sys.stdout.write ('Usage: %s [options] dir1 dir2...

' % sys.argv[0])

for (what, help) in self.option_help:
    sys.stdout.write (format % (what, help))

sys.stdout.write ('Directories:
')

for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '\n')
    else:
        sys.stdout.write (format % dir)

sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[0] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)

    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
        )

        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        )

        self.skip_extensions |= set (
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        )

        self.fossilised_files |= set (
            # Old news won't be updated.
            'ONEWS',
        )
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (['c',
                                      'C',
                                      'cc',
                                      'h',
                                      'hs',
                                      'f',
                                      'f90',
                                      'go',
                                      'inc',
                                      'java',
                                      ])

    def skip_file (self, dir, filename):
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (['po',
                                      'pot',
                                      ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['soft-fp',])
class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (['
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set (['
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',
        ])
self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
    ])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon/fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon/fsf)
        self.add_package_author('Free Software Foundation.', canon/fsf)
        self.add_package_author('Free Software Foundation Inc.', canon/fsf)
        self.add_package_author('Free Software Foundation, Inc', canon/fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon/fsf)
        self.add_package_author('The Free Software Foundation', canon/fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon/fsf)
        self.add_package_author('Software Foundation, Inc.', canon/fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('NVIDIA Corporation')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libc++', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
'libada',
'libatomic',
'libbacktrace',
'libcpp',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libitm',
'libmudflap',
'libobjc',
'libstdc++-v3',
]

GCCCmdLine().main()
1f+gnu/classpath/tools/taglets/CopyrightTagletjava/lang/Objectcom/sun/tools/doclets/TagletNAMELjava/lang/String;
ConstantValuecopyrightHEADER
Copyright: <init>()VCode
LineNumberTableLocalVariableTablethis-
Lgnu/classpath/tools/taglets/CopyrightTaglet;getName()Ljava/lang/String;inField()Z
inConstructorinMethod
inOverviewwinPackageinTypesinlineTagregister(Ljava/util/Map;)V

&(*)
java/util/Map+.put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;
tagletMapjava/util/Map;copyrightTaglettoString)(Lcom/sun/javadoc/Tag;)Ljava/lang/String;3com/sun/javadoc/Tag
g
506*([Lcom/sun/javadoc/Tag;)Ljava/lang/String;tagLcom/sun/javadoc/Tag;2:;text
=?>java/lang/String@Alength()ICjava/lang/StringBuffer
BF<d>
BHJappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;Ljava/lang/StringBuilderN<dt><i>Copyright ©</i></dt>
KSIT-(Ljava/lang/String;)Ljava/lang/StringBuilder;V	</i></dt>
BXtags[Lcom/sun/javadoc/Tag;haveValidTagZiIresultLjava/lang/StringBuffer;
SourceFileCopyrightTaglet.java!

/*1-
7.;?:C.G.K,O!S"#QYSL*+%-WWXY-.
/01A
*2Y+S4

7806)+=>+29<=+ _BYDN-EGW67+29<-%-KYMO+29RURWG+W+ YGW-[F`adefge+k/l7m>nDoSpunstw\]^`a7TbcA`ade
==============================================================================
compiler_rt License
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Developed by:

LLVM Team

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#include <java/security/Permission.h>
#include <java/lang/Object.h>
extern "Java"
{
namespace java

// DO NOT EDIT THIS FILE - it is machine generated

ifdef __java_security_acl_Permission__
define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java

}
namespace security
{
    namespace acl
    {
        class Permission;
    }
}

class java::security::acl::Permission : public ::java::lang::Object
{
public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@miitame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauichmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.\'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.\'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */
/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
  fprintf (FILE, ":.space " HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE,NAME,SIZE,ROUNDED)  
  ( fputs (".comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE,NAME,SIZE,ROUNDED)  
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE,NAME,SIZE,ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
  if ((LOG)!=0) fprintf ((FILE), ":.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with \`assemble_name\'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  

sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

*/

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/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {

/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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#define __gnu_javax_sound_AudioSecurityManager$Permission__
#endif
#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
namespace javax
{
namespace sound
{
    class AudioSecurityManager$Permission;
}
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{
    AudioSecurityManager$Permission(::java::lang::String *, jint);
    public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
    private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
    public:
    static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__

1.913 wildfly-jmx 11.1.1.Final

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1.915 apr 1.5.2

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.916 asm-util 8.0.1

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1.917 pcre 8.41

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Written by: Philip Hazel
Email local part: ph10
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1.918 base-passwd 3.5.29

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#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}
my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = " ";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})\b/s
        or die "Year not found in README copyright message \$copyright_msg";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})\b/i
        or die "Copyright statement not found in perl -v output \$output";

    $year;
}
1.931 artemis-core-client 2.10.1
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1.938 hk2-locator 2.5.0

1.939 typing-extensions 3.7.4.3

1.939.1 Available under license:

A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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1.940 classgraph 4.6.32

1.941 libusb 1.0.21
1.941.1 Available under license :

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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
stopword list that is BSD-licensed created by the Carrot2 project. The file resides
in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smarten) was
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WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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1.946 jsoup 1.8.3

1.947 commons-lang3 3.10
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1.948 eclipse-compiler 3.12.1.v20160829-0950

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 *
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 */
/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 *
 * @param executable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-jar/org/hibernate/validator/internal/xml/package.html
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*/
/** *
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* */

<sup>* Script expressions can be written in any scripting or expression language,*
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> JSR 223</sup> compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
* will be used as parameter names.
* </p>
* </p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* </pre>
* </pre>
* Can be specified on any method or constructor.
* </p>
* *
* @author Gunnar Morling
*/

Found in path(s):
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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* */
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* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-
jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
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 */

Found in path(s):
* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-
jar/org/hibernate/validator/internal/util/TypeHelper.java

1.952 pyxattr 0.5.1
1.952.1 Available under license :

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* /opt/cola/permits/1110734836_1606847320.85/0/hibernate-validator-5-2-4-final-sources-2-
jar/org/hibernate/validator/cfg/defs/AssertTrueDef.java
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Found in path(s):
* /opt/cola/permits/1130653765_1612774399.04/0/webapp-runner-main-8-5-15-1-sources-2-
  jar/webapp/runner/launch/Main.java

1.967 libxpm 3.5.12-1

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.
Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.
The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

   However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

   When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

   Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
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Also add information on how to contact you by electronic and paper mail.  

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice  

That's all there is to it!  

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Version 2.1, February 1999  

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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* Copyright (C) 1998 Brian Raiter <breadbox@muppetlabs.com>
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*/
1.978 tar 1.3

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1.981 libnl3 3.4.0 1

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1.982 glibc 2.27-3ubuntu1.4

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* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1.zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2019_07_01/operations/_load_balancer_outbound_rules_operations.py
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* /opt/cola/permits/1155895633_1619081419.94/0/azure-mgmt-network-10-2-0-1.zip/azure-mgmt-network-10.2.0/azure/mgmt/network/v2017_09_01/operations/_application_security_groups_operations.py
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No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: azure-mgmt-network
Version: 10.2.0
Summary: Microsoft Azure Network Management Client Library for Python
Home-page: https://github.com/Azure/azure-sdk-for-python
Author: Microsoft Corporation
Author-email: azpysdkhelp@microsoft.com
License: MIT License
Description: # Microsoft Azure SDK for Python

This is the Microsoft Azure Network Management Client Library.
This package has been tested with Python 2.7, 3.5, 3.6, 3.7 and 3.8.
For a more complete view of Azure libraries, see the [Github repo](https://github.com/Azure/azure-sdk-for-python/)

# Usage

For code examples, see [Network Management](https://docs.microsoft.com/python/api/overview/azure/network)
on docs.microsoft.com.

# Provide Feedback

If you encounter any bugs or have suggestions, please file an issue in the [Issues](https://github.com/Azure/azure-sdk-for-python/issues)section of the project.

![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python%2Fazure-mgmt-network%2FREADME.png)

# Release History

## 10.2.0 (2020-04-10)

**Features**

- Model VpnConnection has a new parameter routing_configuration
- Model NatRuleCondition has a new parameter terminate_tls
- Model HubVirtualNetworkConnection has a new parameter routing_configuration
- Model ExpressRouteConnection has a new parameter routing_configuration
- Model FirewallPolicy has a new parameter transport_security
- Model FirewallPolicy has a new parameter identity
- Model FirewallPolicy has a new parameter threat_intel_whitelist
- Model ApplicationRuleCondition has a new parameter target_urls
- Model P2SConnectionConfiguration has a new parameter routing_configuration
- Model BackendAddressPool has a new parameter load_balancer_backend_addresses
- Added operation LoadBalancerBackendAddressPoolsOperations.create_or_update
- Added operation LoadBalancerBackendAddressPoolsOperations.delete
- Added operation group HubRouteTablesOperations

## 10.1.0 (2020-04-10)

**Features**
- Model VpnConnection has a new parameter dpd_timeout_seconds
- Model FirewallPolicy has a new parameter intrusion_system_mode
- Model Subnet has a new parameter ip_allocations
- Model ApplicationGateway has a new parameter force_firewall_policy_association
- Model PrivateEndpoint has a new parameter custom_dns_configs
- Model VirtualNetworkGatewayConnection has a new parameter dpd_timeout_seconds
- Model VpnClientConfiguration has a new parameter radius_servers
- Model VirtualNetwork has a new parameter ip_allocations
- Model VirtualHub has a new parameter security_partner_provider
- Model VpnServerConfiguration has a new parameter radius_servers
- Added operation group PrivateDnsZoneGroupsOperations
- Added operation group SecurityPartnerProvidersOperations
- Added operation group IpAllocationsOperations

## 10.0.0 (2020-03-31)

**Features**
- Model VirtualNetworkGatewayConnection has a new parameter use_local_azure_ip_address
- Model NetworkRuleCondition has a new parameter source_ip_groups
- Model NetworkRuleCondition has a new parameter destination_ip_groups
- Model VirtualNetworkGatewayIPConfiguration has a new parameter private_ip_address
- Model BgpSettings has a new parameter bgp_peering_addresses
- Model ExpressRouteCircuitConnection has a new parameter ipv6_circuit_connection_config
- Model ApplicationGatewayHttpListener has a new parameter host_names
- Model ApplicationRuleCondition has a new parameter source_ip_groups
- Model VirtualNetworkGateway has a new parameter enable_private_ip_address
- Model LocalNetworkGateway has a new parameter fqdn
- Model VpnSiteLink has a new parameter fqdn
- Model NetworkSecurityGroup has a new parameter flow_logs
- Added operation NetworkManagementClientOperationsMixin.put_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixin.get_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixin.delete_bastion_shareable_link
- Added operation NetworkManagementClientOperationsMixin.disconnect_active_sessions
- Added operation NetworkManagementClientOperationsMixin.get_active_sessions
- Added operation group NetworkVirtualAppliancesOperations
**Breaking changes**

- Model ApplicationGatewayHttpListener no longer has parameter hostnames

## 9.0.0 (2020-01-17)

**Features**

- Model AzureFirewall has a new parameter ip_groups
- Model AzureFirewall has a new parameter management_ip_configuration
- Model ConnectionMonitorResult has a new parameter endpoints
- Model ConnectionMonitorResult has a new parameter connection_monitor_type
- Model ConnectionMonitorResult has a new parameter test_configurations
- Model ConnectionMonitorResult has a new parameter test_groups
- Model ConnectionMonitorResult has a new parameter outputs
- Model AzureFirewallIPConfiguration has a new parameter type
- Model ConnectionMonitor has a new parameter endpoints
- Model ConnectionMonitor has a new parameter test_configurations
- Model ConnectionMonitor has a new parameter test_groups
- Model ConnectionMonitor has a new parameter outputs
- Model ConnectionMonitor has a new parameter notes
- Model DdosSettings has a new parameter protected_ip
- Model ApplicationGatewayRewriteRuleActionSet has a new parameter url_configuration
- Added operation P2sVpnGatewaysOperations.disconnect_p2s_vpn_connections
- Added operation VirtualNetworkGatewaysOperations.disconnect_virtual_network_gateway_vpn_connections
- Added operation group FlowLogsOperations

**Breaking changes**

- Operation
  ExpressRouteCircuitAuthorizationsOperations.create_or_update has a new signature
- Model ConnectionMonitorParameters has a new signature

## 8.0.0 (2019-11-12)

**Features**

- Model PrivateLinkServiceConnectionState has a new parameter actions_required
- Model ConnectivityParameters has a new parameter preferred_ip_version

**Breaking changes**

- Model PrivateLinkServiceConnectionState no longer has parameter action_required

## 7.0.0 (2019-10-22)

**Features**

- Model ApplicationGatewayHttpListener has a new parameter hostnames
- Model ApplicationGatewayHttpListener has a new parameter firewall_policy
- Model ApplicationGatewayPathRule has a new parameter firewall_policy
- Model P2SVpnGateway has a new parameter p2_sconnection_configurations
- Model VpnServerConfiguration has a new parameter vpn_client_root_certificates
- Model VpnServerConfiguration has a new parameter radius_server_root_certificates
- Model VpnServerConfiguration has a new parameter radius_client_root_certificates
- Model VpnServerConfiguration has a new parameter vpn_client_revoked_certificates
- Model ExpressRouteConnection has a new parameter enable_internet_security
- Model AzureFirewallApplicationRule has a new parameter source_ip_groups
- Model WebApplicationFirewallPolicy has a new parameter path_based_rules
- Model WebApplicationFirewallPolicy has a new parameter http_listeners
- Model PrivateLinkService has a new parameter enable_proxy_protocol
- Model AzureFirewallNetworkRule has a new parameter destination_ip_groups
- Model AzureFirewallNetworkRule has a new parameter source_ip_groups
- Model AzureFirewallNetworkRule has a new parameter destination_fqdns
- Model VirtualWAN has a new parameter virtual_wan_type
- Model VirtualHub has a new parameter sku
- Model VirtualHub has a new parameter virtual_hub_route_table_v2s
- Model AzureFirewallNatRule has a new parameter translated_fqdn
- Model AzureFirewallNatRule has a new parameter source_ip_groups
- Model PrivateEndpointConnection has a new parameter link_identifier
- Model AzureFirewall has a new parameter additional_properties
- Added operation RouteFiltersOperations.update_tags
- Added operation ServiceEndpointPoliciesOperations.update_tags
- Added operation PrivateLinkServicesOperations.get_private_endpoint_connection
- Added operation PrivateLinkServicesOperations.list_private_endpoint_connections
- Added operation group VirtualHubRouteTableV2sOperations
- Added operation group IpGroupsOperations

**Breaking changes**

- Operation AzureFirewallsOperations.update_tags has a new signature
- Operation ExpressRouteCircuitAuthorizationsOperations.create_or_update has a new signature
- Model P2SVpnGateway no longer has parameter
  p2s_connection_configurations
- Model VpnServerConfiguration no longer has parameter
  vpn_serverconfig_vpnclient_root_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_serverconfig_radius_client_root_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_serverconfig_vpnclient_revoked_certificates
- Model VpnServerConfiguration no longer has parameter
  vpn_serverconfig_radius_server_root_certificates
- Removed operation RouteFiltersOperations.update
- Removed operation VirtualRoutersOperations.update
- Removed operation RouteFilterRulesOperations.update
- Removed operation VirtualRouterPeeringsOperations.update
- Removed operation FirewallPoliciesOperations.update_tags
- Removed operation ServiceEndpointPoliciesOperations.update

## 6.0.0 (2019-10-09)

**Features**

- Model VirtualNetwork has a new parameter bgp_communities
- Model VirtualHub has a new parameter azure_firewall
- Model VirtualHub has a new parameter security_provider_name
- Model P2SVpnGateway has a new parameter
  p2s_connection_configurations
- Model P2SVpnGateway has a new parameter vpn_server_configuration
- Model AzureFirewall has a new parameter sku
- Model VirtualNetworkGateway has a new parameter
  inbound_dns_forwarding_endpoint
- Model VirtualNetworkGateway has a new parameter
  enable_dns_forwarding
- Added operation
  P2sVpnGatewaysOperations.get_p2s_vpn_connection_health_detailed
- Added operation
  NetworkManagementClientOperationsMixin.generatevirtualwanvpnserverconfigurationvpnprofile
- Added operation group VpnServerConfigurationsOperations
- Added operation group
  VpnServerConfigurationsAssociatedWithVirtualWanOperations
- Added operation group AvailableServiceAliasesOperations

**Breaking changes**

- Model WebApplicationFirewallPolicy has a new required parameter
  managed_rules
- Model P2SVpnGateway no longer has parameter
  vpn_client_address_pool
- Model P2SVpnGateway no longer has parameter custom_routes
- Model P2SVpnGateway no longer has parameter
  p2_svpn_server_configuration
- Model VirtualWAN no longer has parameter security_provider_name
- Model VirtualWAN no longer has parameter
  p2_svpn_server_configurations
- Model PolicySettings has a new signature

## 5.1.0 (2019-10-03)

**Features**

- Model VirtualNetworkGateway has a new parameter
  vpn_gateway_generation
- Model ExpressRoutePort has a new parameter identity
- Model VirtualNetworkGatewayConnection has a new parameter
  traffic_selector_policies
- Model ExpressRouteLink has a new parameter mac_sec_config
- Model VirtualNetworkGatewayConnectionListEntity has a new parameter
  traffic_selector_policies
- Model NetworkInterfaceIPConfiguration has a new parameter
  private_link_connection_properties
- Model ApplicationGatewayRequestRoutingRule has a new parameter
  priority
- Added operation
  VirtualNetworkGatewayConnectionsOperations.stop_packet_capture
- Added operation
  VirtualNetworkGatewayConnectionsOperations.start_packet_capture
- Added operation
  ConnectionMonitorsOperations.update_tags
- Added operation
  VirtualNetworkGatewaysOperations.stop_packet_capture
- Added operation
  VirtualNetworkGatewaysOperations.start_packet_capture
- Added operation group VirtualRoutersOperations
- Added operation group VirtualRouterPeeringsOperations

## 5.0.0 (2019-08-27)

**Features**

- Model PrivateLinkServiceIpConfiguration has a new parameter primary
- Model PrivateLinkServiceIpConfiguration has a new parameter etag
- Model PrivateLinkServiceIpConfiguration has a new parameter type
- Model PrivateLinkServiceIpConfiguration has a new parameter id
- Model AzureFirewall has a new parameter virtual_hub
- Model AzureFirewall has a new parameter hub_ip_addresses
- Model AzureFirewall has a new parameter firewall_policy
- Model PrivateLinkServiceConnection has a new parameter provisioning_state
- Model PrivateLinkServiceConnection has a new parameter etag
- Model PrivateLinkServiceConnection has a new parameter type
- Model PublicIPPrefix has a new parameter load_balancer_frontend_ip_configuration
- Model ApplicationGatewayOnDemandProbe has a new parameter backend_address_pool
- Model ApplicationGatewayOnDemandProbe has a new parameter backend_http_settings
- Model PrivateEndpointConnection has a new parameter provisioning_state
- Model PrivateEndpointConnection has a new parameter etag
- Model PrivateEndpointConnection has a new parameter type
- Added operation SubnetsOperations.unprepare_network_policies
- Added operation group FirewallPolicyRuleGroupsOperations
- Added operation group FirewallPoliciesOperations

**Breaking changes**

- Model PrivateLinkServiceIpConfiguration no longer has parameter public_ip_address
- Model ApplicationGatewayOnDemandProbe no longer has parameter backend_pool_name
- Model ApplicationGatewayOnDemandProbe no longer has parameter backend_http_setting_name

## 4.0.0 (2019-07-19)

**Features**

- Model Subnet has a new parameter private_link_service_network_policies
- Model Subnet has a new parameter
private_endpoint_network_policies
- Model VpnSite has a new parameter vpn_site_links
- Model LoadBalancingRule has a new parameter type
- Model BackendAddressPool has a new parameter outbound_rules
- Model BackendAddressPool has a new parameter type
- Model InboundNatPool has a new parameter type
- Model OutboundRule has a new parameter type
- Model InboundNatRule has a new parameter type
- Model Probe has a new parameter type
- Model FrontendIPConfiguration has a new parameter
  private_ip_address_version
- Model FrontendIPConfiguration has a new parameter type
- Model AvailablePrivateEndpointType has a new parameter name
- Model AvailablePrivateEndpointType has a new parameter
  resource_name
- Model VpnConnection has a new parameter vpn_link_connections
- Added operation
  AvailablePrivateEndpointTypesOperations.list_by_resource_group
- Added operation AzureFirewallsOperations.update_tags
- Added operation
  PrivateLinkServicesOperations.check_private_link_service_visibility_by_resource_group
- Added operation
  PrivateLinkServicesOperations.list_autoApproved_private_link_services
- Added operation
  PrivateLinkServicesOperations.check_private_link_service_visibility
- Added operation
  PrivateLinkServicesOperations.list_autoApproved_private_link_services_by_resource_group
- Added operation group VpnLinkConnectionsOperations
- Added operation group VpnSiteLinkConnectionsOperations
- Added operation group VpnSiteLinksOperations

**Breaking changes**

- Operation SubnetsOperations.prepare_network_policies has a new
  signature
- Model PrepareNetworkPoliciesRequest no longer has parameter
  resource_group_name
- Model AvailablePrivateEndpointType no longer has parameter
  service_name
- Removed operation group
  AvailableResourceGroupPrivateEndpointTypesOperations

## 3.0.0 (2019-05-24)

**Features**

- Model NetworkInterface has a new parameter private_endpoint
- Model ServiceAssociationLink has a new parameter type
- Model ServiceAssociationLink has a new parameter allow_delete
- Model ServiceAssociationLink has a new parameter locations
- Model Subnet has a new parameter private_endpoints
- Model PatchRouteFilter has a new parameter ipv6_peerings
- Model ExpressRouteCircuitPeering has a new parameter type
- Model ApplicationGatewayProbe has a new parameter port
- Model RouteFilter has a new parameter ipv6_peerings
- Model ExpressRouteCircuitAuthorization has a new parameter type
- Model PeerExpressRouteCircuitConnection has a new parameter type
- Model AzureFirewall has a new parameter zones
- Model ResourceNavigationLink has a new parameter type
- Model ExpressRouteCircuitConnection has a new parameter type
- Model VpnConnection has a new parameter
  use_policy_based_traffic_selectors
- Model NatGateway has a new parameter zones
- Model VpnClientConfiguration has a new parameter aad_audience
- Model VpnClientConfiguration has a new parameter aad_issuer
- Model VpnClientConfiguration has a new parameter aad_tenant
- Added operation
  VirtualNetworkGatewaysOperations.get_vpnclient_connection_health
- Added operation
  P2sVpnGatewaysOperations.get_p2s_vpn_connection_health
- Added operation VpnGatewaysOperations.reset
- Added operation group BastionHostsOperations
- Added operation group NetworkManagementClientOperationsMixin
- Added operation group PrivateLinkServicesOperations
- Added operation group
  AvailableResourceGroupPrivateEndpointTypesOperations
- Added operation group ServiceAssociationLinksOperations
- Added operation group ResourceNavigationLinksOperations
- Added operation group ServiceTagsOperations
- Added operation group PrivateEndpointsOperations
- Added operation group AvailablePrivateEndpointTypesOperations

**Breaking changes**

- Model NetworkInterface no longer has parameter interface_endpoint
- Model Subnet no longer has parameter interface_endpoints
- Removed operation group InterfaceEndpointsOperations

**General Breaking changes**

This version uses a next-generation code generator that *might*
introduce breaking changes if you were importing from the v20xx_yy_zz
API folders. In summary, some modules were incorrectly
visible/importable and have been renamed. This fixed several issues
caused by usage of classes that were not supposed to be used in the
first place.
- NetworkManagementClient cannot be imported from `azure.mgmt.network.v20xx_yy_zz.network_management_client` anymore (import from `azure.mgmt.network.v20xx_yy_zz` works like before)
- NetworkManagementClientConfiguration import has been moved from `azure.mgmt.network.v20xx_yy_zz.network_management_client` to `azure.mgmt.network.v20xx_yy_zz`
- A model `MyClass` from a "models" sub-module cannot be imported anymore using `azure.mgmt.network.v20xx_yy_zz.models.my_class` (import from `azure.mgmt.network.v20xx_yy_zz.models` works like before)
- An operation class `MyClassOperations` from an `operations` sub-module cannot be imported anymore using `azure.mgmt.network.v20xx_yy_zz.operations.my_class_operations` (import from `azure.mgmt.network.v20xx_yy_zz.operations` works like before)

Last but not least, HTTP connection pooling is now enabled by default. You should always use a client as a context manager, or call close(), or use no more than one client per process.

## 2.7.0 (2019-04-25)

**Features**

- Model P2SVpnGateway has a new parameter custom_routes
- Model Subnet has a new parameter nat_gateway
- Model VpnConnection has a new parameter
  use_local_azure_ip_address
- Model EffectiveRoute has a new parameter
  disable_bgp_route_propagation
- Model VirtualNetworkGateway has a new parameter custom_routes
- Added operation
  ApplicationGatewaysOperations.backend_health_on_demand
- Added operation DdosProtectionPlansOperations.update_tags
- Added operation group NatGatewaysOperations

**Bug fixes and preview API updates**

- Parameter output_blob_sas_url of model GetVpnSitesConfigurationRequest is now required
- Operation VpnSitesConfigurationOperations.download has a new signature
- Model ExpressRouteCircuit no longer has parameter allow_global_reach

## 2.6.0 (2019-03-21)
**Features**

- Model ApplicationGateway has a new parameter `firewall_policy`
- Model ApplicationGatewayBackendHealthServer has a new parameter `health_probe_log`
- Model ExpressRouteCircuitPeering has a new parameter `peered_connections`
- Model ExpressRouteCircuit has a new parameter `global_reach_enabled`
- Added operation group `PeerExpressRouteCircuitConnectionsOperations`
- Added operation group `WebApplicationFirewallPoliciesOperations`

**Bugfixes**

- Fix incorrect operation `ApplicationGatewaysOperations.list_available_request_headers`
- Fix incorrect operation `ApplicationGatewaysOperations.list_available_server_variables`
- Fix incorrect operation `ApplicationGatewaysOperations.list_available_response_headers`

## 2.6.0rc1 (2019-02-15)

**Features**

- Model AzureFirewall has a new parameter `threat_intel_mode`
- Model ApplicationGatewayRewriteRule has a new parameter `conditions`
- Model ApplicationGatewayRewriteRule has a new parameter `rule_sequence`
- Model ApplicationGatewayAutoscaleConfiguration has a new parameter `max_capacity`
- Added operation `SubnetsOperations.prepare_network_policies`

## 2.5.1 (2019-01-15)

**Features**

- Add missing `ddos_custom_policies` operations

## 2.5.0 (2019-01-04)

**Features**

- Model PublicIPAddress has a new parameter `ddos_settings`
- Added operation `ApplicationGatewaysOperations.list_available_request_headers`
- Added operation `ApplicationGatewaysOperations.list_available_server_variables`
- Added operation
  ApplicationGatewaysOperations.list_available_response_headers
- Added operation ApplicationSecurityGroupsOperations.update_tags

## 2.4.0 (2018-11-27)

**Features**

- Model ApplicationGatewaySslCertificate has a new parameter
  key_vault_secret_id
- Model ApplicationGatewayRequestRoutingRule has a new parameter
  rewrite_rule_set
- Model FlowLogInformation has a new parameter format
- Model ApplicationGateway has a new parameter identity
- Model ApplicationGateway has a new parameter rewrite_rule_sets
- Model TrafficAnalyticsConfigurationProperties has a new parameter
  traffic_analytics_interval
- Model ApplicationGatewayPathRule has a new parameter
  rewrite_rule_set
- Model ApplicationGatewayUrlPathMap has a new parameter
  default_rewrite_rule_set

**Breaking changes**

- Model ApplicationGatewayTrustedRootCertificate no longer has
  parameter keyvault_secret_id (replaced by key_vault_secret_id)

## 2.3.0 (2018-11-07)

**Features**

- Model ApplicationGatewayWebApplicationFirewallConfiguration has a
  new parameter exclusions
- Model ApplicationGatewayWebApplicationFirewallConfiguration has a
  new parameter file_upload_limit_in_mb
- Model ApplicationGatewayWebApplicationFirewallConfiguration has a
  new parameter max_request_body_size_in_kb
- Model ApplicationGatewayHttpListener has a new parameter
  custom_error_configurations
- Model ExpressRouteCircuit has a new parameter bandwidth_in_gbps
- Model ExpressRouteCircuit has a new parameter stag
- Model ExpressRouteCircuit has a new parameter express_route_port
- Model EvaluatedNetworkSecurityGroup has a new parameter applied_to
- Model NetworkConfigurationDiagnosticResult has a new parameter
  profile
- Model ApplicationGateway has a new parameter
  custom_error_configurations
- Added operation group LoadBalancerOutboundRulesOperations
- Added operation group ExpressRouteLinksOperations
- Added operation group ExpressRoutePortsOperations
- Added operation group ExpressRoutePortsLocationsOperations

**Breaking changes**

- Model NetworkConfigurationDiagnosticResult no longer has parameter traffic_query
- Operation NetworkWatchersOperations.get_network_configuration_diagnostic has a new signature (no longer takes target_resource_id, queries, but a NetworkConfigurationDiagnosticParameters instance)

## 2.2.1 (2018-09-14)

**Bugfixes**

- Fix unexpected exception with network_profiles.delete

## 2.2.0 (2018-09-11)

Default API version is now 2018-08-01

**Features**

- Model AzureFirewall has a new parameter nat_rule_collections
- Model VirtualHub has a new parameter route_table
- Model VirtualHub has a new parameter virtual_network_connections
- Model VirtualHub has a new parameter p2_svpn_gateway
- Model VirtualHub has a new parameter express_route_gateway
- Model VirtualHub has a new parameter vpn_gateway
- Model VirtualWAN has a new parameter allow_vnet_to_vnet_traffic
- Model VirtualWAN has a new parameter p2_svpn_server_configurations
- Model VirtualWAN has a new parameter office365_local_breakout_category
- Model VirtualWAN has a new parameter allow_branch_to_branch_traffic
- Model VirtualWAN has a new parameter security_provider_name
- Model VpnSite has a new parameter is_security_site
- Model VpnConnection has a new parameter connection_bandwidth
- Model VpnConnection has a new parameter enable_internet_security
- Model VpnConnection has a new parameter vpn_connection_protocol_type
- Model VpnConnection has a new parameter enable_rate_limiting
- Model ServiceEndpointPolicy has a new parameter subnets
- Model AzureFirewallApplicationRule has a new parameter fqdn_tags
- Model AzureFirewallApplicationRule has a new parameter target_fqdns
- Model VpnGateway has a new parameter `vpn_gateway_scale_unit`
- Model ApplicationGatewayBackendHttpSettings has a new parameter `trusted_root_certificates`
- Model VirtualNetworkGatewayConnection has a new parameter `connection_protocol`
- Model ExpressRouteCircuitPeering has a new parameter `express_route_connection`
- Model Subnet has a new parameter `delegations`
- Model Subnet has a new parameter `address_prefixes`
- Model Subnet has a new parameter `ip_configuration_profiles`
- Model Subnet has a new parameter `service_association_links`
- Model Subnet has a new parameter `interface_endpoints`
- Model Subnet has a new parameter `purpose`
- Model ApplicationGateway has a new parameter `trusted_root_certificates`
- Model NetworkInterface has a new parameter `tap_configurations`
- Model NetworkInterface has a new parameter `hosted_workloads`
- Model NetworkInterface has a new parameter `interface_endpoint`
- Model VirtualNetworkGatewayConnectionListEntity has a new parameter `connection_protocol`
- Model HubVirtualNetworkConnection has a new parameter `enable_internet_security`
- Model NetworkInterfaceIPConfiguration has a new parameter `virtual_network_taps`
- `Added operation` VirtualNetworkGatewaysOperations.reset_vpn_client_shared_key
- `Added operation group` ExpressRouteConnectionsOperations
- `Added operation group` AzureFirewallFqdnTagsOperations
- `Added operation group` VirtualNetworkTapsOperations
- `Added operation group` NetworkProfilesOperations
- `Added operation group` P2sVpnServerConfigurationsOperations
- `Added operation group` AvailableDelegationsOperations
- `Added operation group` InterfaceEndpointsOperations
- `Added operation group` P2sVpnGatewaysOperations
- `Added operation group` AvailableResourceGroupDelegationsOperations
- `Added operation group` ExpressRouteGatewaysOperations
- `Added operation group` NetworkInterfaceTapConfigurationsOperations

**Breaking changes**

- Model VirtualHub no longer has parameter `hub_virtual_network_connections`
- Model VpnConnection no longer has parameter `connection_bandwidth_in_mbps`
- Model AzureFirewallApplicationRule no longer has parameter `target_urls`
- Model VpnGateway no longer has parameter `policies`
- Model AzureFirewallIPConfiguration no longer has parameter
internal_public_ip_address
- Model ApplicationGatewayAutoscaleConfiguration has a new signature
- Renamed virtual_wa_ns to virtual_wans

## 2.1.0 (2018-08-28)

Default API version is now 2018-07-01

***Features***

- Model ExpressRouteCircuit has a new parameter allow_global_reach
- Model PublicIPAddress has a new parameter public_ip_prefix
- Model BackendAddressPool has a new parameter outbound_rule (replaces outbound_nat_rule)
- Model FrontendIPConfiguration has a new parameter outbound_rules (replaces outbound_nat_rule)
- Model FrontendIPConfiguration has a new parameter public_ip_prefix
- Model LoadBalancingRule has a new parameter enable_tcp_reset
- Model VirtualNetworkGatewayConnectionListEntity has a new parameter express_route_gateway_bypass
- Model VirtualNetworkGatewayConnection has a new parameter express_route_gateway_bypass
- Model Subnet has a new parameter service_endpoint_policies
- Model InboundNatPool has a new parameter enable_tcp_reset
- Model LoadBalancer has a new parameter outbound_rules (replaces outbound_nat_rule)
- Model InboundNatRule has a new parameter enable_tcp_reset
- Added operation group ServiceEndpointPolicyDefinitionsOperations
- Added operation group ServiceEndpointPoliciesOperations
- Added operation group PublicIPPrefixesOperations

***Breaking changes***

- Model BackendAddressPool no longer has parameter outbound_nat_rule (now outbound_rules)
- Model FrontendIPConfiguration no longer has parameter outbound_nat_rules (now outbound_rules)
- Model LoadBalancer no longer has parameter outbound_nat_rules (now outbound_rules)

## 2.0.1 (2018-08-07)

***Bugfixes***

- Fix packet_captures.get_status empty output

## 2.0.0 (2018-07-27)
**Features**

- Supports now 2018-06-01 and 2018-04-01. 2018-06-01 is the new default.
- Client class can be used as a context manager to keep the underlying HTTP session open for performance

**Features starting 2018-04-01**

- Model FlowLogInformation has a new parameter `flow_analytics_configuration`
- Model ApplicationGateway has a new parameter `enable_fips`
- Model ApplicationGateway has a new parameter `autoscale_configuration`
- Model ApplicationGateway has a new parameter `zones`
- Model ConnectionSharedKey has a new parameter `id`
- Added operation group `HubVirtualNetworkConnectionsOperations`
- Added operation group `AzureFirewallsOperations`
- Added operation group `VirtualHubsOperations`
- Added operation group `VpnGatewaysOperations`
- Added operation group `VpnSitesOperations`
- Added operation group `VirtualWANsOperations`
- Added operation group `VpnSitesConfigurationOperations`
- Added operation group `VpnConnectionsOperations`

**Breaking changes starting 2018-04-01**

- Operation `VirtualNetworkGatewayConnectionsOperations.set_shared_key` has a new parameter "id"
- Operation `DdosProtectionPlansOperations.create_or_update` parameter "parameters" has been flatten to "tags/location"

**Breaking changes starting 2018-06-01**

- The new class `VpnConnection` introduced in 2018-04-01 renamed "connection_bandwidth" to "connection_bandwidth_in_mbps"

## 2.0.0rc3 (2018-06-14)

**Bugfixes**

- API version 2018-02-01 enum Probe now supports HTTPS (standard SKU load balancer)
- API version 2015-06-15 adding missing "primary" in `NetworkInterfaceIPConfiguration`

## 2.0.0rc2 (2018-04-03)
**Features**

- All clients now support Azure profiles.
- API version 2018-02-01 is now the default
- Express Route Circuit Connection (considered preview)
- Express Route Provider APIs
- GetTopologyOperation supports query parameter
- Feature work for setting Custom IPsec/IKE policy for Virtual Network Gateway point-to-site clients
- DDoS Protection Plans

## 2.0.0rc1 (2018-03-07)

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes.

- Model signatures now use only keyword-argument syntax. All positional arguments must be re-written as keyword-arguments. To keep auto-completion in most cases, models are now generated for Python 2 and Python 3. Python 3 uses the "**" syntax for keyword-only arguments.
- Enum types now use the "str" mixin (class AzureEnum(str, Enum)) to improve the behavior when unrecognized enum values are encountered. While this is not a breaking change, the distinctions are important, and are documented here: 
  <https://docs.python.org/3/library/enum.html#others>
  At a glance:
  - "is" should not be used at all.
  - "format" will return the string value, where "%s" string formatting will return `NameOfEnum.stringvalue`. Format syntax should be prefered.

- New Long Running Operation:
  - Return type changes from
    `msrestazure.azure_operation.AzureOperationPoller` to
    `msrest.polling.LROPoller`. External API is the same.
  - Return type is now **always** a `msrest.polling.LROPoller`, regardless of the optional parameters used.
  - The behavior has changed when using `raw=True`. Instead of returning the initial call result as `ClientRawResponse`, without polling, now this returns an LROPoller. After polling, the final resource will be returned as a `ClientRawResponse`.
  - New `polling` parameter. The default behavior is `Polling=True` which will poll using ARM algorithm. When `Polling=False`, the response of the initial call will be returned without polling.
  - `polling` parameter accepts instances of subclasses of
`msrest.polling.PollingMethod`.
- `add_done_callback` will no longer raise if called after polling is finished, but will instead execute the callback right away.

**Network Breaking changes**

- Operation network_watcher.get_topology changed method signature

**Features**

- Add ConnectionMonitor operation group (2017-10/11-01)
- Add target_virtual_network / target_subnet to topology_parameter (2017-10/11-01)
- Add idle_timeout_in_minutes / enable_floating_ip to inbound_nat_pool (2017-11-01)

**Bugfixes**

- Fix peer_asn validation rules (2017-10/11-01)

## 1.7.1 (2017-12-20)

**Bugfixes**

Fix `SecurityRule` constructor parameters order to respect the one used until 1.5.0. This indeed introduces a breaking change for users of 1.6.0 and 1.7.0, but this constructor signature change was not expected, and following semantic versionning all 1.x versions should follow the same signature.

This fixes third party library, like Ansible, that expects (for excellent reasons) this SDK to follow strictly semantic versionning with regards to breaking changes and have their dependency system asking for `>=1.0;<2.0`

## 1.7.0 (2017-12-14)

**Features**

- Add iptag. IpTag is way to restrict the range of IPaddresses to be allocated.
- Default API version is now 2017-11-01

**Bug fixes**

- Added valid ASN range in ExpressRouteCircuitPeering (#1672)
## 1.6.0 (2017-11-28)

**Bug fixes**

- Accept space in location for "usage" (i.e. "west us").
- sourceAddressPrefix, sourceAddressPrefixes and sourceApplicationSecurityGroups are mutually exclusive and one only is needed, meaning none of them is required by itself. Thus, sourceAddressPrefix is not required anymore.
- destinationAddressPrefix, destinationAddressPrefixes and destinationApplicationSecurityGroups are mutually exclusive and one only is needed, meaning none of them is required by itself. Thus, destinationAddressPrefix is not required anymore.
- Client now accept unicode string as a valid subscription_id parameter
- Restore missing azure.mgmt.network.__version__

**Features**

- Client now accept a "profile" parameter to define API version per operation group.
- Add update_tags to most of the resources
- Add operations group to list all available rest API operations
- NetworkInterfaces_ListVirtualMachineScaleSetIpConfigurations
- NetworkInterfaces_GetVirtualMachineScaleSetIpConfiguration

## 1.5.0 (2017-09-26)

**Features**

- Availability Zones
- Add network_watchers.get_azure_reachability_report
- Add network_watchers.list_available_providers
- Add virtual_network_gateways.supported_vpn_devices
- Add virtual_network_gateways.vpn_device_configuration_script

## 1.5.0rc1 (2017-09-18)

**Features**

- Add ApiVersion 2017-09-01 (new default)
- Add application_security_groups (ASG) operations group
- Add ASG to network_interface operations
- Add ASG to IP operations
- Add source/destination ASGs to network security rules
- Add DDOS protection and VM protection to vnet operations
**Bug fix**

- check_dns_name_availability now correctly defines "domain_name_label" as required and not optional

## 1.4.0 (2017-08-23)

**Features**

- Add ApiVersion 2017-08-01 (new default)
- Added in both 2017-08-01 and 2017-06-01:
  - virtual_network_gateways.list_connections method
  - default_security_rules operations group
  - inbound_nat_rules operations group
  - load_balancer_backend_address_pools operations group
  - load_balancer_frontend_ip_configurations operations group
  - load_balancer_load_balancing_rules operations group
  - load_balancer_network_interfaces operations group
  - load_balancer_probes operations group
  - network_interface_ip_configurations operations group
  - network_interface_load_balancers operations group
  - EffectiveNetworkSecurityGroup.tag_map attribute
  - EffectiveNetworkSecurityRule.source_port_ranges attribute
  - EffectiveNetworkSecurityRule.destination_port_ranges attribute
  - EffectiveNetworkSecurityRule.source_address_prefixes attribute
  - EffectiveNetworkSecurityRule.destination_address_prefixes attribute
  - SecurityRule.source_port_ranges attribute
  - SecurityRule.destination_port_ranges attribute
  - SecurityRule.source_address_prefixes attribute
  - SecurityRule.destination_address_prefixes attribute
- Added in 2017-08-01 only
  - PublicIPAddress.sku
  - LoadBalancer.sku

**Changes on preview**

> - "available_private_access_services" is renamed
> - "available_endpoint_services"
> - "radius_secret" parsing fix (was unable to work in 1.3.0)

## 1.3.0 (2017-07-10)

**Preview features**

- Adding "available_private_access_services" operation group (preview)
- Adding "radius_secret" in Virtual Network Gateway (preview)
**Bug Fixes**

- VMSS Network ApiVersion fix in 2017-06-01 (point to 2017-03-30)

## 1.2.0 (2017-07-03)

**Features**

Adding the following features to both 2017-03-01 and 2017-06-01:

- express route ipv6
- VMSS Network (get, list, etc.)
- VMSS Public IP (get, list, etc.)

## 1.1.0 (2017-06-27)

**Features**

- Add list_usage in virtual networks (2017-03-01)
- Add ApiVersion 2017-06-01 (new default)

This new ApiVersion is for new Application Gateway features:

> - ApplicationGateway Ssl Policy custom cipher suites support [new
> properties added to Sslpolicy Property of
> ApplicationGatewayPropertiesFormat]
> - Get AvailableSslOptions api [new resource
> ApplicationGatewayAvailableSslOptions and child resource
> ApplicationGatewayPredefinedPolicy]
> - Redirection support [new child resource
> ApplicationGatewayRedirectConfiguration for Application Gateway,
> new properties in UrlPathMap, PathRules and RequestRoutingRule]
> - Azure Websites feature support [new properties in
> ApplicationGatewayBackendHttpSettingsPropertiesFormat,
> ApplicationGatewayProbePropertiesFormat, schema for property
> ApplicationGatewayProbeHealthResponseMatch]

## 1.0.0 (2017-05-15)

- Tag 1.0.0rc3 as stable (same content)

## 1.0.0rc3 (2017-05-03)

**Features**

- Added check connectivity api to network watcher
## 1.0.0rc2 (2017-04-18)

**Features**
- Add ApiVersion 2016-12-01 and 2017-03-01
- 2017-03-01 is now default ApiVersion

**Bugfixes**
- Restore access to NetworkWatcher and PacketCapture from 2016-09-01

## 1.0.0rc1 (2017-04-11)

**Features**
To help customers with sovereign clouds (not general Azure), this version has official multi ApiVersion support for 2015-06-15 and 2016-09-01

## 0.30.1 (2017-03-27)
- Add NetworkWatcher
- Add PacketCapture
- Add new methods to Virtualk Network Gateway
  - get_bgp_peer_status
  - get_learned_routes
  - get_advertised_routes

## 0.30.0 (2016-11-01)
- Initial preview release. Based on API version 2016-09-01.

## 0.20.0 (2015-08-31)

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
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Description-Content-Type: text/markdown
1.984 libpopt 1.16

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1.986 tacacs-plus 2.6

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1.989 javassist 3.23.2-GA

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No license file was found, but licenses were detected in source scan.

/*
 * Javassist, a Java-bytecode translator toolkit.
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 * License.
 * */

Found in path(s):
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2.jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2.jar/javassist/bytecode/stackmap/Tracer.java
jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/convert/TransformNew.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/CodeConverter.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/CtNewClass.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/web/BadHttpRequest.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/web/MethodFilter.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/ CtClass.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/Dump.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/convert/Transformer.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/runtime/Desc.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/web/Webserver.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/ClassMap.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/Stmt.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/KeywordTable.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/analysis/SubroutineScanner.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/InstanceofExpr.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/expr/Expr.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/Bytecode.java

* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/convert/TransformAfter.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/util/proxy/FactoryHelper.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/util/proxy/DefineClassHelper.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/CtMember.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/SerialVersionUID.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/InstructionPrinter.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/NoFieldException.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/LocalVariableTypeAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/Frame.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/LocalVariableTypeAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/Callback.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/ CtField.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/analysis/MultiType.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/URLClassPath.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/compiler/Scope/Codec/ScopedClassPool.java
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*/

Found in path(s):
 * /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/CharMemberValue.java
 * /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/FloatMemberValue.java
 * /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/ArrayMemberValue.java
 * /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/IntegerMemberValue.java
 * /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/ByteMemberValue.java
 * /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/LongMemberValue.java
 * /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/Annotation.java
 * /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/EnumMemberValue.java
 * /opt/cola/permits/1136416216_1613765029.38/0/javassist-3-23-2-ga-sources-2-jar/javassist/bytecode/annotation/ClassMemberValue.java
 */
1.990 libxmu 1.1.2-2

1.990.1 Available under license:

No license file was found, but licenses were detected in source scan.

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#! /bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
++ $srcdir/configure "$@"
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+ [ Julien Cristau ]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+ * New upstream release.
+ * Add ${misc:Depends} to libxmu-headers.
+ * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-[arch,indep] debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 14 Nov 2015 10:44:44 +0100
+
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 05 May 2014 14:13:01 +0200
+
+libxmu (2:1.1.1-1) unstable; urgency=low
+
+ * New upstream release.
+ * Don't require (fake)root for debian/rules clean.
+ * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
+   configure.ac.
+ * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+   from debian/rules.
+ * Remove David Nusinow from Uploaders.
+ * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200
+
+libxmu (2:1.1.0-3) unstable; urgency=low
+
+ -- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700
+
+libxmu (2:1.1.0-2) unstable; urgency=low
+
+ [ Christopher James Halse Rogers ]
+ * debian/patches/01_dont_export_private_deps.patch:
+   - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
+     private dep. With binutils-gold, the indirect dependency on Xt is not
+     considered when linking with Xmu so this causes build failures.
+
+ [ Julien Cristau ]
+ * Drop Pre-Depends on x11-common, only needed for upgrades from the
+   monolith.
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 28 Apr 2011 14:10:11 +0200
+
+libxmu (2:1.1.0-1) unstable; urgency=low
+
+ * New upstream release.
+ * Bump xmlto-dev build-dep for new macros.
+ * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+ * Pass --with-xmlto and --without-fop (we want html and txt only).
+ * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
  libxmu-headers.install file.
+ * Remove the hardcoded path to the X logo in the Xmu.html file.
+ * Kill *.xml in the doc directory, no point in shipping them.
+ * Switch from --list-missing to --fail-missing for additional safety.

+ -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100
+ +libxmu (2:1.0.5-2) unstable; urgency=high
  +
  + [ Julien Cristau ]
  + * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
    good reason. Thanks, Colin Watson!
  + * Remove myself from Uploaders
  + * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
    libxmuu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.

+ -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100
+ +libxmu (2:1.0.5-1) unstable; urgency=low
  +
  + [ Timo Aaltonen ]
  + * New upstream release.
  + + Fix 64bit support (closes: #521887)

+ -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100
+ +libxmu (2:1.0.5-1) unstable; urgency=low
  +
  + [ Timo Aaltonen ]
  + * New upstream release.
  + + Fix 64bit support (closes: #521887)

+ -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100
+ +libxmu (2:1.0.4-2) unstable; urgency=low
  +
  + [ Julien Cristau ]
  + * Drop -1 debian revisions from build-deps.
  + * libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmuu-dev don't need a
    dependency on x11-common.
  + * Build libxmu-headers in binary-indep instead of binary-arch
    (closes: #486418). Thanks, Martin Koepple!
  + * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
- Handle parallel builds.
- [ Brice Goglin ]
- Add a link to www.X.org and a reference to the upstream module in the long description.
- Add upstream URL to debian/copyright.
- Add README.source, bump Standards-Version to 3.8.2.
- Use updated xsfbs, closes: #538587.
- Move -dbg packages to section debug.
- -- Julien Cristau <jcristau@debian.org>  Fri, 07 Aug 2009 14:30:36 +0200
- +libxmu (2:1.0.4-1) unstable; urgency=low
- [ Julien Cristau ]
- New upstream release.
- Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks, Josh Triplett.
- Don't export private dependencies in xmu.pc and xmuu.pc. These dependencies are handled by Requires.private.
- Due to the above, build-depend on quilt and apply the xsfbs patch rules.
- Update xsfbs to the latest version as of 2008-01-06.
- Add myself to Uploaders, and remove Branden and Fabio with their permission.
- Bump Standards-Version to 3.7.3 (no changes).
- s/^XS-Vcs/Vcs/
- [ Timo Aaltonen ]
- Bump the epoch so that this can be synced to Ubuntu in the future.
- -- Julien Cristau <jcristau@debian.org>  Thu, 17 Jan 2008 14:57:47 +0100
- +libxmu (1:1.0.3-1) unstable; urgency=low
- [ Andres Salomon ]
- Test for obj-$({DEB_BUILD_GNU_TYPE}) before creating it during build; idempotency fix.
libxmu (1:1.0.2-1) experimental; urgency=low
+  * New upstream release
+  * Bump debhelper compat to 5
+  * Run dh_install with --list-missing
+  * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
+  to match the rest of Debian and shut lintian up
+  * Bump standards version to 3.7.2.0
+  
+  -- David Nusinow <dnusinow@debian.org>  Wed, 30 Aug 2006 16:53:25 -0400
+
+  
+libxmu (1:1.0.1-3) unstable; urgency=low
+  * Reorder makeshlib command in rules file so that ldconfig is run
+  properly. Thanks Drew Parsons and Steve Langasek.
+  
+  -- David Nusinow <dnusinow@debian.org>  Tue, 18 Apr 2006 21:49:59 -0400
+
+libxmu (1:1.0.1-2) unstable; urgency=low
+  * Upload to unstable
+  
+  -- David Nusinow <dnusinow@debian.org>  Thu, 23 Mar 2006 22:44:59 -0500
+
+libxmu (1:6.2.3-5) breezy; urgency=low
+  * Also, libxmu-dev needs to depend on libxt-dev too.
+  
+  -- Adam Conrad <adconrad@ubuntu.com>  Mon, 25 Jul 2005 09:43:47 +0000
+
+libxmu (1:6.2.3-4) breezy; urgency=low
+  * Bump libxt-dev build-dep once more, _XOPEN_SOURCE begone!
+  
+  -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 10:48:14 +0000
+  

Open Source Used In SDWan 20.6.1 9780
*libxmu (1:6.2.3-3) breezy; urgency=low
+
+  * Make libxmu-dev depend on libxext-dev, since libxmu links to it.
+
+-- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 07:56:02 +0000
+
+libxmu (1:6.2.3-2) breezy; urgency=low
+
+  * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid
+    _XOPEN_SOURCE.
+
+-- Daniel Stone <daniel.stone@ubuntu.com>  Sat, 23 Jul 2005 00:20:50 +1000
+
+libxmu (1:6.2.3-1) breezy; urgency=low
+
+  * First libxmu release.
+
+-- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000
--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+  debhelper (>= 9),
+  dh-autoreconf,
+  libx11-dev (>= 1:0.99.2),
+  libxt-dev (>= 1:0.99.1),
+  libxext-dev (>= 1:0.99.1),
+  pkg-config,
+  quilt,
+  automake,
+  libtool,
+  xutils-dev (>= 1:7.6+2),
+# devel-docs:
+  xmlto (>= 0.0.22),
+  xorg-sgml-doctools (>= 1:1.8),
+  w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git
+
Package: libxmu6
Section: libs
Architecture: any
Multi-Arch: same
Pre-Depends: ${misc:Pre-Depends}
Depends: ${shlibs:Depends}, ${misc:Depends}
Description: X11 miscellaneous utility library
libXmu provides a set of miscellaneous utility convenience functions for X
libraries to use. libXmuu is a lighter-weight version that does not depend
on libXt or libXext; for more information, see libxmuu1.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmu6-dbg
Section: debug
Architecture: any
Multi-Arch: same
Priority: extra
Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
Description: X11 miscellaneous utility library (debug package)
libXmu provides a set of miscellaneous utility convenience functions for X
libraries to use. libXmuu is a lighter-weight version that does not depend
on libXt or libXext; for more information, see libxmuu1.

This package contains the debug versions of the library found in libxmu6.
Non-developers likely have little use for this package.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmu-dev
Section: libdevel
Architecture: any
Multi-Arch: same
Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
headers (= ${source:Version})
Description: X11 miscellaneous utility library (development headers)
libXmu provides a set of miscellaneous utility convenience functions for X
libraries to use. libXmuu is a lighter-weight version that does not depend
on libXt or libXext; for more information, see libxmuu1.
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu1
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous micro-utility library
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu1-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu-dev
+Section: libdevel
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*/pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
+usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
+usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
diff --git a/xmu.pc.in b/xmu.pc.in
index a086f83..15dabbf 100644
+++ b/xmu.pc.in
@@ -6,7 +6,7 @@
 Name: Xmu
 + Requires: xproto x11 xt
 ++Requires: xproto xt
 + Requires.private: x11 xt xext
 + Cflags: -I$[includedir]
 + Libs: -L$(libdir) -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
+--- a/xmuu.pc.in
++++ b/xmuu.pc.in
@@ -6,7 +6,7 @@
 Name: Xmuu
 + Description: Mini Xmu Library
 + Version: @PACKAGE_VERSION@
 + Requires: xproto x11
 ++Requires: xproto
 + Requires.private: x11
 + Cflags: -I$[includedir]
 + Libs: -L$(libdir) -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
#!/usr/bin/make -f
# debian/rules for the Debian libxmu package.
+# Copyright 2004 Scott James Remnant <scott@netsplit.com>
+# Copyright 2005 Daniel Stone <daniel@fooishbar.org>
+# Copyright 2005 David Nusinow <dnusinow@debian.org>
+
+# Uncomment this to turn on verbose mode.
+#export DH_VERBOSE=1
+
+.PHONY: build
+build:
+dh build --quilt,autoreconf --builddirectory=build/ --parallel
+
1.991 dosfs-tools 4.1
1.991.1 Available under license:

/* io.h - Virtual disk input/output

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/*

*/

/* FAT32, VFAT, Atari format support, and various fixes additions May 1998
 * by Roman Hodek <Roman.Hodek@informatik.uni-erlangen.de> */

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
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For example, if you distribute copies of the library, whether gratis
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complete object files of the recipients so that they can relink them
with the library, after making changes to the library and recompiling
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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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table, the facility still operates, and performs whatever part of
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a purpose that is entirely well-defined independent of the
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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice
That's all there is to it!

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1.1004 wildfly-jdr 19.1.0.Final

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1.1006 jul-to-slf4j-stub 1.0.1.Final

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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/r1-fgets.c)
Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/r1fe)
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  jar/android/annotation/SuppressLint.java
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Debian maintainer history: The original package was put together by
Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley
<kevind@rahul.net> took over. 2003-07 Andreas Metzler
<ametzler@debian.org> followed.

Upstream Authors:
* GNU find was written by Eric Decker <cire@cisco.com>,
with enhancements by David MacKenzie <djm@gnu.org>,
Jay Plett <jay@silence.princeton.nj.us>,
and Tim Wood <axolotl!tim@toad.com>.
The idea for -print0 and xargs -0 came from
Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.
Improvements have been made by James Youngman <jay@gnu.org>. 

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* GNU xargs
was originally written by Mike Rendell, with enhancements by David
MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally
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and Bas van Gompel.

Upstream's AUTHORS lists these major contributors:
Eric B. Decker
Michael Rendell
David J. MacKenzie
Jim Meyering
Tim Wood
Kevin Dalley <kevind@rahul.net>
Paul Eggert <eggert@cs.ucla.edu>
James Youngman <jay@gnu.org>
Jay Plett
Paul Sheer
Dmitry V. Levin
Bas van Gompel
Eric Blake <ebb9@byu.net>
Andreas Metzler
Kamil Dudka <kdudka@redhat.com>
Bernhard Voelker <mail@bernhard-voelker.de>

Current upstream maintainer is James Youngman <jay@gnu.org>.

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1.1023 zlib 1.2.11 r3

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Found in path(s):
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/tests/conftest.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/msrest/polling/async_poller.py
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* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/msrest/polling/__init__.py
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* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/setup.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/msrest/services.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/msrest/universal_http/requests.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/msrest/universal_http/async_abc.py
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0-6-21-tar-gz/msrest-0.6.21/msrest/polling/poller.py
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Metadata-Version: 2.1
Name: msrest
Version: 0.6.21
Summary: AutoRest swagger generator Python client runtime.
Home-page: https://github.com/Azure/msrest-for-python
Author: Microsoft Corporation
License: MIT License
Description: AutoRest Python Client Runtime

.. image:: https://travis-ci.org/Azure/msrest-for-python.svg?branch=master
   :target: https://travis-ci.org/Azure/msrest-for-python

.. image:: https://codecov.io/gh/azure/msrest-for-python/branch/master/graph/badge.svg
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Installation
------------

To install:

.. code-block:: bash

   $ pip install msrest

Release History

-------------

2021-01-26 Version 0.6.21
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**Bug Fixes**

- Fixes `failsafe_deserialize` introduced in `0.6.20` #232

2021-01-25 Version 0.6.20
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**Features**

- Add `failsafe_deserialize` method to the `Deserializer` object. #232
- Serialize `datetime`, `date`, `time`, `timedelta` and `Decimal` correctly when serializing `object`. #224

2020-09-08 Version 0.6.19
**Bugfixes**

- Fix serialization of random Model object #220
- Fix serialization of unicode string in Py2 and object mode #221

2020-07-27 Version 0.6.18

**Features**

- Add support for attributes/text in the same XML node #218

2020-06-25 Version 0.6.17

**Bugfixes**

- Fix XML and discriminator #214

2020-06-09 Version 0.6.16

**Bugfixes**

- Fix XML parsing with namespaces and attributes #209

**Features**

- Add py.typed for mypy support

2020-06-04 Version 0.6.15

**Bugfixes**

- Fix RFC regression introduced in 0.6.14 (RFC parse date are no longer pickable) #208
- Fix XML parsing with namespaces #206

Thanks to ivanst0 for the contribution

2020-05-18 Version 0.6.14
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**Bugfixes**

- Fix "from_dict" in some complex flattening scenario  #204
- Fix RFC date parsing if machine locale is not English  #201

2020-04-07 Version 0.6.13
++++++

**Bugfixes**

- Fix deserializer and flattening if intermediate node is None  #198
- Fix validation exception message for minimum/maximum checks  #199

2020-04-06 Version 0.6.12
++++++

**Features**

- Add "time" serializer/deserializer  #196

2020-01-30 Version 0.6.11
++++++

**Features**

- XML mode can now be enabled even if the given Model has no XML metadata  #184
- Add Kerberos Authentication  #186
- Improve error message if expected type is dictionary and something else is provided  #188

**Bugfixes**

- Fix comma separated serialization of array in query  #186
- Fix validation of basic types in some complex scenario  #189

Thanks to catatonicprime for the contribution

2019-09-04 Version 0.6.10
++++++

**Features**

- XML mode now supports OpenAPI additional properties  #174

**Bugfixes**
- Accept "is_xml" kwargs to force XML serialization #178
- Disable XML deserialization if received element is not an ElementTree #178
- A "null" enum deserialize as None, and not "None" anymore #173
- Fix some UTF8 encoding issue in Python 2.7 and XML mode #172

2019-07-24 Version 0.6.9
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**Features**

- Accept extensions of JSON mimetype as valid JSON #167

2019-06-24 Version 0.6.8
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**BugFixes**

- Impossible to serialize XML if model contains UTF8 characters on Python 2.7 #165
- Impossible to deserialize a HTTP response as XML if body contains UTF8 characters on Python 2.7 #165
- Loading a serialized configuration fails with NameError on NoOptionError #162

Thanks to cclauss for the contribution

2019-06-12 Version 0.6.7
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**Features**

- Add DomainCredentials credentials for EventGrid

Thanks to kalyanaj for the contribution

2019-03-21 Version 0.6.6
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**Bugfixes**

- Make 0.6.x series compatible with pyinstaller again
- sdist now includes tests

Thanks to dotlambda for the contribution

2019-03-11 Version 0.6.5
++++++++++++++++++++++++

**Bugfixes**
- Fix list of integers serialization if div is provided #151
- Fix parsing of UTF8 with BOM #145

Thanks to eduardomourar for the contribution

2019-01-09 Version 0.6.4
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**Bugfixes**

- Fix regression on credentials configuration if used outside of Autorest scope #135

2019-01-08 Version 0.6.3
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**Features**

- Updated **experimental** async support. Requires Autorest.Python 4.0.64.

2018-11-19 Version 0.6.2
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**Bugfixes**

- Fix circular dependency in TYPE_CHECKING mode #128

2018-10-15 Version 0.6.1
++++++++++++++++++++++++

**Bugfixes**

- Remove unnecessary verbose "warnings" log #126

2018-10-02 Version 0.6.0
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**Features**

- The environment variable AZURE_HTTP_USER_AGENT, if present, is now injected part of the UserAgent
- New **preview** msrest.universal_http module. Provide tools to generic HTTP management (sync/async, requests/aiohttp, etc.)
  - New **preview** msrest.pipeline implementation:
    - A Pipeline is an ordered list of Policies than can process an HTTP request and response in a generic way.
    - More details in the wiki page about Pipeline: https://github.com/Azure/msrest-for-python/wiki/msrest-0.6.0--Pipeline
- Adding new attributes to Configuration instance:
  - http_logger_policy - Policy to handle HTTP logging
  - user_agent_policy - Policy to handle UserAgent
  - pipeline - The current pipeline used by the SDK client
  - async_pipeline - The current async pipeline used by the async SDK client

- Installing "msrest[async]" now installs the **experimental** async support. Works ONLY for Autorest.Python 4.0.63.

**Breaking changes**

- The HTTPDriver API introduced in 0.5.0 has been replaced by the Pipeline implementation.

- The following classes have been moved from "msrest.pipeline" to "msrest.universal_http":
  - ClientRedirectPolicy
  - ClientProxies
  - ClientConnection

- The following classes have been moved from "msrest.pipeline" to "msrest.universal_http.requests":
  - ClientRetryPolicy

**Bugfixes**

- Fix "long" on Python 2 if used with the "object" type #121

Thanks to robgolding for the contribution

2018-09-04 Version 0.5.5
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**Bugfixes**

- Fix a serialization issue if additional_properties is declared, and "automatic model" syntax is used ("automatic model" being the ability to pass a dict to command and have the model auto-created) # 120

2018-07-12 Version 0.5.4
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**Features**

- Support additionalProperties and XML

**BugFixes**

- Better parse empty node and not string types
- Improve "object" XML parsing

2018-07-10 Version 0.5.3
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**BugFixes**

- Fix some XML serialization subtle scenarios

2018-07-09 Version 0.5.2
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**Features**

- deserialize/from_dict now accepts a content-type parameter to parse XML strings

**Bugfixes**

- Fix some complex XML Swagger definitions.

This release likely breaks already generated XML SDKs, that needs to be regenerated with autorest.python 3.0.58

2018-06-21 Version 0.5.1
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**Bugfixes**

- Lower Accept header overwrite logging message #110
- Fix 'object' type and XML format

Thanks to dharmab for the contribution

2018-06-12 Version 0.5.0
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**Disclaimer**

This released is designed to be backward compatible with 0.4.x, but there is too many internal refactoring and new features to continue with 0.4.x versionning

**Features**

- Add XML support
- Add many type hints, and MyPY testing on CI.
- HTTP calls are made through a HTTPDriver API. Only implementation is `requests` for now. This driver API is *not* considered stable
  and you should pin your msrest version if you want to provide a personal implementation.
**Bugfixes**

- Incorrect milliseconds serialization for some datetime object #94

**Deprecation**

That will trigger a DeprecationWarning if an old Autorest generated code is used.

- _client.add_header is deprecated, and config.headers should be used instead
- _client.send_formdata is deprecated, and _client.put/get/delete/post + _client.send should be used instead

2018-04-30 Version 0.4.29

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**Bugfixes**

- Improve `SDKClient.__exit__` to take exc_details as optional parameters and not required #93
- refresh_session should also use the permanent HTTP session if available #91

2018-04-18 Version 0.4.28

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**Features**

- msrest is now able to keep the "requests.Session" alive for performance. To activate this behavior:

  - Use the final Client as a context manager (requires generation with Autorest.Python 3.0.50 at least)
  - Use `client.config.keep_alive = True` and `client.close()` (requires generation with Autorest.Python 3.0.50 at least)
  - Use `client.config.keep_alive = True` and client._client.close() (not recommended, but available in old releases of SDK)

- All Authentication classes now define `signed_session` and `refresh_session` with an optional `session` parameter.
  To take benefits of the session improvement, a subclass of Authentication *MUST* add this optional parameter
  and use it if it's not `None`:

    ```python
    def signed_session(self, session=None):
        session = session or requests.Session()

        # As usual from here.
    ```

2018-03-07 Version 0.4.27

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**Features**
- Disable HTTP log by default (security), add `enable_http_log` to restore it 86

**BugFixes**

- Fix incorrect date parsing if ms precision is over 6 digits 82

2018-01-30 Version 0.4.26
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**Features**

- Add TopicCredentials for EventGrid client

**Bugfixes**

- Fix minimal dependency of isodate
- Fix serialisation from dict if datetime provided

2018-01-08 Version 0.4.25
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**Features**

- Add LROPoller class. This is a customizable LRO engine.
  - This is the poller engine of Autorest.Python 3.0, and is not used by code generated by previous Autorest version.

2018-01-03 Version 0.4.24
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**Bugfixes**

- Date parsing is now compliant with Autorest / Swagger 2.0 specification (less lenient)

**Internal optimisation**

- Call that does not return a streamable object are now executed in requests stream mode False (was True whatever the type of the call).
  - This should reduce the number of leaked opened session and allow urllib3 to manage connection pooling more efficiently.
  - Only clients generated with Autorest.Python >= 2.1.31 (not impacted otherwise, fully backward compatible)

2017-12-21 Version 0.4.23
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**Bugfixes**
- Accept to deserialize enum of different type if content string match #75
- Stop failing on deserialization if enum string is unkwn. Return the string instead.

**Features**

- Model now accept kwargs in constructor for future kwargs models

2017-12-15 Version 0.4.22
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**Bugfixes**

- Do not validate additional_properties #73
- Improve validation error if expected type is dict, but actual type is not #73

2017-12-14 Version 0.4.21
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**Bugfixes**

- Fix additional_properties if Swagger was flatten #72

2017-12-13 Version 0.4.20
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**Features**

- Add support for additional_properties
  - By default, all additional_properties are kept.
  - Additional properties are sent to the server only if it was specified in the Swagger,
    or if "enable_additional_properties_sending" is called on the model we want it.
    This is a class method that enables it for all instance of this model.

2017-11-20 Version 0.4.19
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**Features**

- The interpretation of Swagger 2.0 "discriminator" is now lenient. This means for these two scenarios:
  - Discriminator value is missing from the received payload
  - Discriminator value is not defined in the Swagger

  Instead of failing with an exception, this now returns the base type for this "discriminator".

  Note that this is not a contradiction of the Swagger 2.0 spec, that specifies
  "validation SHOULD fail [...] there may exist valid reasons in particular circumstances to ignore a particular
item,
but the full implications must be understood and carefully weighed before choosing a different course."

This cannot be configured for now and is the new default behavior, but can be in the future if needed.

**Bugfixes**

- Optional formdata parameters were raising an exception (#65)
- "application/x-www-form-urlencoded" form was sent using "multipart/form-data".
  This causes problems if the server does not support "multipart/form-data" (#66)

2017-10-26 Version 0.4.18
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**Features**

- Add ApiKeyCredentials class. This can be used to support OpenAPI ApiKey feature.
- Add CognitiveServicesAuthentication class. Pre-declared ApiKeyCredentials class for Cognitive Services.

2017-10-12 Version 0.4.17
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**Features**

This make Authentication classes more consistent:

- OAuthTokenAuthentication is now a subclass of BasicTokenAuthentication (was Authentication)
- BasicTokenAuthentication has now a "set_token" methods that does nothing.

This allows test like "isinstance(o, BasicTokenAuthentication)" to be guaranted that the following attributes exists:

- token
- set_token()
- signed_session()

This means for users of "msrestazure", that they are guaranted that all AD classes somehow inherits from "BasicTokenAuthentication"

2017-10-05 Version 0.4.16
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**Bugfixes**

- Fix regression: accept "set<str>" as a valid "[str]" (#60)

2017-09-28 Version 0.4.15
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**Bugfixes**

- Always log response body (#16)
- Improved exception message if error JSON is Odata v4 (#55)
- Refuse "str" as a valid "[str]" type (#41)
- Better exception handling if input from server is not JSON valid

**Features**

- Add Configuration.session_configuration_callback to customize the requests.Session if necessary (#52)
- Add a flag to Serializer to disable client-side-validation (#51)
- Remove "import requests" from "exceptions.py" for apps that require fast loading time (#23)

Thank you to jayden-at-arista for the contribution

2017-08-23 Version 0.4.14
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**Bugfixes**

- Fix regression introduced in msrest 0.4.12 - dict syntax with enum modeled as string and enum used

2017-08-22 Version 0.4.13
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**Bugfixes**

- Fix regression introduced in msrest 0.4.12 - dict syntax using isodate.Duration (#42)

2017-08-21 Version 0.4.12
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**Features**

- Input is now more lenient
- Model have a "validate" method to check content constraints
- Model have now 4 new methods:

  - "serialize" that gives the RestAPI that will be sent
  - "as_dict" that returns a dict version of the Model. Callbacks are available.
  - "deserialize" the parses the RestAPI JSON into a Model
  - "from_dict" that parses several dict syntax into a Model. Callbacks are available.

More details and examples in the Wiki article on Github:
https://github.com/Azure/msrest-for-python/wiki/msrest-0.4.12---Serialization-change

**Bugfixes**
- Better Enum checking (#38)

2017-06-21 Version 0.4.11
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**Bugfixes**

- Fix incorrect dependency to "requests" 2.14.x, instead of 2.x meant in 0.4.8

2017-06-15 Version 0.4.10
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**Features**

- Add requests hooks to configuration

2017-06-08 Version 0.4.9
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**Bugfixes**

- Accept "null" value for paging array as an empty list and do not raise (#30)

2017-05-22 Version 0.4.8
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**Bugfixes**

- Fix random "pool is closed" error (#29)
- Fix requests dependency to version 2.x, since version 3.x is announced to be breaking.

2017-04-04 Version 0.4.7
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**Bugfixes**

- Refactor paging #22:
  - "next" is renamed "advance_page" and "next" returns only 1 element (Python 2 expected behavior)
  - paging objects are now real generator and support the "next()" built-in function without need for "iter()"
  - Raise accurate DeserialisationError on incorrect RestAPI discriminator usage #27
  - Fix discriminator usage of the base class name #27
  - Remove default mutable arguments in Clients #20
  - Fix object comparison in some scenarios #24

2017-03-06 Version 0.4.6
**Bugfixes**
- Allow Model sub-classes to be serialized if type is "object"

2017-02-13 Version 0.4.5

**Bugfixes**
- Fix polymorphic deserialization #11
- Fix regexp validation if \w is used in Python 2.7 #13
- Fix dict deserialization if keys are unicode in Python 2.7

**Improvements**
- Add polymorphic serialisation from dict objects
- Remove chardet and use HTTP charset declaration (fallback to utf8)

2016-09-14 Version 0.4.4

**Bugfixes**
- Remove paging URL validation, part of fix https://github.com/Azure/autorest/pull/1420

**Disclaimer**

In order to get paging fixes for impacted clients, you need this package and Autorest > 0.17.0 Nightly 20160913

2016-09-01 Version 0.4.3

**Bugfixes**
- Better exception message (https://github.com/Azure/autorest/pull/1300)

2016-08-15 Version 0.4.2

**Bugfixes**
- Fix serialization if "object" type contains None (https://github.com/Azure/autorest/issues/1353)

2016-08-08 Version 0.4.1
**Bugfixes**

- Fix compatibility issues with requests 2.11.0 (https://github.com/Azure/autorest/issues/1337)
- Allow url of ClientRequest to have parameters (https://github.com/Azure/autorest/issues/1217)

2016-05-25 Version 0.4.0
++++++++++++++++++++++++

This version has no bug fixes, but implements new features of Autorest:
- Base64 url type
- unixtime type
- x-ms-enum modelAsString flag

**Behaviour changes**

- Add Platform information in UserAgent
- Needs Autorest > 0.17.0 Nightly 20160525

2016-04-26 Version 0.3.0
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**Bugfixes**

- Read only values are no longer in __init__ or sent to the server (https://github.com/Azure/autorest/pull/959)
- Useless kwarg removed

**Behaviour changes**

- Needs Autorest > 0.16.0 Nightly 20160426

2016-03-25 Version 0.2.0
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**Bugfixes**

- Manage integer enum values (https://github.com/Azure/autorest/pull/879)
- Add missing application/json Accept HTTP header (https://github.com/Azure/azure-sdk-for-python/issues/553)

**Behaviour changes**

- Needs Autorest > 0.16.0 Nightly 20160324

2016-03-21 Version 0.1.3
++++++++++++++++++++++++
**Bugfixes**

- Deserialisation of generic resource if null in JSON (https://github.com/Azure/azure-sdk-for-python/issues/544)

2016-03-14 Version 0.1.2
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**Bugfixes**

- urllib3 side effect (https://github.com/Azure/autorest/issues/824)

2016-03-04 Version 0.1.1
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**Bugfixes**

- Source package corrupted in Pypi (https://github.com/Azure/autorest/issues/799)

2016-03-04 Version 0.1.0
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**Behavioural Changes**

- Removed custom logging set up and configuration. All loggers are now children of the root logger 'msrest' with no pre-defined configurations.
  - Replaced _required attribute in Model class with more extensive _validation dict.

**Improvement**

- Removed hierarchy scanning for attribute maps from base Model class - relies on generator to populate attribute maps according to hierarchy.
  - Base class Paged now inherits from collections.Iterable.
  - Data validation during serialization using custom parameters (e.g. max, min etc).
  - Added ValidationErrors to be raised if invalid data encountered during serialization.

2016-02-29 Version 0.0.3
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**Bugfixes**

- Source package corrupted in Pypi (https://github.com/Azure/autorest/issues/718)

2016-02-19 Version 0.0.2
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**Bugfixes**

- Fixed bug in exception logging before logger configured.

2016-02-19 Version 0.0.1

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- Initial release.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
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Provides-Extra: async

Found in path(s):
* /opt/cola/permits/1151950619_1618007319.22/0/msrest-0.6.21-tar-gz/msrest-0.6.21/msrest.egg-info/PKG-INFO
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* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-
jar/org/wildfly/security/authz/PermissionMapper.java

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jar/org/wildfly/security/auth/callback/FastUnsupportedCallbackException.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-
jar/org/wildfly/security/auth/callback/ChannelBindingCallback.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-
jar/org/wildfly/security/auth/callback/AuthenticationCompleteCallback.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-
jar/org/wildfly/security/auth/callback/CredentialCallback.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-
jar/org/wildfly/security/auth/callback/PeerPrincipalCallback.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/callback/SocketAddressCallback.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/callback/ParameterCallback.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/callback/SocketAddressQueryCallbackHandler.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/callback/SecurityLayerDisposedCallback.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/callback/ExtendedChoiceCallback.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/RealmIdentity.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/_private/ElytronMessages.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/ServerAuthenticationContext.java

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* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/auth/server/MechanismRealmConfiguration.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1-11-4-final-sources-jar/org/wildfly/security/authz/AuthorizationIdentity.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/auth/server/ModifiableRealmIdentity.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/auth/callback/TrustedAuthoritiesCallback.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/authz/IntersectionRoles.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/authz/package-info.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/auth/callback/package-info.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/authz/event/RealmAuthorizationEvent.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/authz/AuthorizationException.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/auth/server/MechanismAuthenticationFactory.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/auth/server/PrincipalDecoder.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/authz/package-info.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/auth/callback/package-info.java
* /opt/ws_local/PERMITS_SQL/1094803134_1601321208.93/0/wildfly-elytron-auth-server-1.11.4-final-sources-jar/org/wildfly/security/authz/package-info.java

1.1034 opensaml-xmlsec-api 3.3.1

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$Revision: 1.2 $ on $Date: 2005/06/03 03:09:54 $ by $Author: cantor$

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* /opt/cola/permissions/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1-jar/org/opensaml/xmlsec/signature/support/SignatureConstants.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/crypto/XMLSigningUtil.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/AlgorithmSupport.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/SymmetricKeyWrapAES128.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/HMACSHA224.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureRSASHA1.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureDSASHA256.java
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* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/encryption/EncryptedData.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/XPath.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/encryption/XMLEncryptionBuilder.java
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* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/HMACMD5.java
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* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/BlockEncryptionDESede.java
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* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/encryption/MGF.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/encryption/CipherData.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/keyinfo/package-info.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/SignatureSigningParameters.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/config/GlobalAlgorithmRegistryInitializer.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/BlockEncryptionAES192CBC.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/algorithm/descriptors/BlockEncryptionAES192GCM.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/encryption/EncryptionMethod.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/signature/package-info.java
* /opt/cola/permits/1111302162_1606896591.66/0/opensaml-xmlsec-api-3-3-1-sources-1.jar/org/opensaml/xmlsec/keyinfo/KeyInfoCriterion.java
1.1035 fdisk 2.33.1

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1.1040 angular-bootstrap 0.12.1

1.1041 netty-transport-native-epoll

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 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
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 */

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* Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
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/*

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* /opt/ws_local/PERMITS_SQL/1077916992_1597181508.3/0/bcprov-ext-jdk15on-1-60-sources-
jar/org/bouncycastle/pqc/math/ntru/euclid/test/IntEuclideanTest.java
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1077916992_1597181508.3/0/bcprov-ext-jdk15on-1-60-sources-
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// now keep space is free to use

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jar/org/bouncycastle/pqc/crypto/gmss/GMSSPrivateKeyParameters.java
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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* 
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* 
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* 
*/

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 * SPHINCS-256 signer.
 * <p>
 * This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being
 * the digests used
 * for message hashing and tree construction are now configurable (within limits...) and that the implementation
 * produces
 * detached signatures.
 * <p>
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1.1059 oniguruma 6.9.1-1

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1.1060 netty-codec 4.1.50.Final

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io.netty.handler.codec/Headers.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io.netty.handler.codec/EmptyHeaders.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DecoderException.java

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectDecoder.java

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/HeaderUtils.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/Bzip2Rand.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/Bzip2Decoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/DecoderResultProvider.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/FastLzFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/SnappyFramedDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/LzfEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/json/JsonObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/LzfDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/Crc32.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/SnappyFramedEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/Lz4Constants.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/LzmaFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty(handler/codec/compression/Bzip2DivSufSort.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/MessageAggregationException.java
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*/
/**
*/
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* 
* The encoding and decoding algorithm in this class has been derived from
*/

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/ValueConverter.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CompressionUtil.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
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 */
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [{@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
* The value of the length field in this example is \( 12 \) (0x0C) which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* \begin{verbatim}
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
* \end{verbatim}
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 0, strip header</h3>
* 
* Because we can get the length of the content by calling
* \{ @link ByteBuf#readableBytes() \}, you might want to strip the length
* field by specifying \(<tt>initialBytesToStrip</tt>\). In this example, we
* specified \(<tt>2</tt>\), that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* \begin{verbatim}
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 2 (= the length of the Length field)
* \end{verbatim}
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
* 
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* \(<tt>lengthAdjustment</tt>\). Because the length value in this example message
* is always greater than the body length by \(<tt>2</tt>\), we specify \(<tt>-2</tt>\)
* as `<tt>lengthAdjustment</tt>` for compensation.
* `<pre>`
* lengthFieldOffset  = 0
* lengthFieldLength  = 2
* `<b>`lengthAdjustment</b> = `<b>`-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +----------------------------+-------------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +----------------------------+-------------------+
* </pre>
*
* `<h3>`3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* `<pre>`
* `<b>`lengthFieldOffset</b> = `<b>`2</b> (= the length of Header 1)
* `<b>`lengthFieldLength</b> = `<b>`3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)    AFTER DECODE (17 bytes)
* +----------------------------+-------------------+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------------------------+-------------------+
* </pre>
*
* `<h3>`3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
* header into the frame length calculation.
* `<pre>`
* lengthFieldOffset  = 0
* lengthFieldLength  = 3
* `<b>`lengthAdjustment</b> = `<b>`2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)    AFTER DECODE (17 bytes)
* +----------------------------+-------------------+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +--------------------------------+--------------------------------+
* </pre>
*
* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the lengthFieldOffset and the extra
* header affects the lengthAdjustment. We also specified a non-zero
* initialBytesToStrip to strip the length field and the prepended
* header from the frame. If you don’t want to strip the prepended header, you
* could specify 0 for initialBytesToSkip.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <-b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <-b>3</b> (= the length of HDR1 + LEN)
* 
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +----------------+--------------------+------------------+
* | HDR1 | Length | HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |
* +----------------+--------------------+------------------+
* </pre>
*
* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message
*
* Let’s give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into lengthAdjustment.
* Please note that we don’t need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <-b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <-b>3</b>
* 
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +----------------+--------------------+------------------+
* | HDR1 | Length | HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |
* +----------------+--------------------+------------------+
* </pre>
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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*/

/**
* Enumeration of supported Base64 dialects.
* 
* The internal lookup tables in this class has been derived from
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* Base64 Encoder/Decoder</a>.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/base64/Base64Dialect.java

1.1061 init-ifupdown 1.0
1.1061.1 Available under license :

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1.1062 diffutils 3.3 5.el7

1.1062.1 Available under license:
/* diff - compare files line by line


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*/

#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <proname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS
proper_name ("Paul Eggert"),
proper_name ("Mike Haertel"),
proper_name ("David Hayes"),
proper_name ("Richard Stallman"),
proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
  char *regexps;/* chars representing disjunction of the regexps */
  size_t len;/* chars used in 'regexps' */
  size_t size;/* size malloc'ed for 'regexps'; 0 if not malloc'ed */
  bool multiple_regexps;/* Does 'regexps' represent a disjunction? */
  struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary). 
   On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty 
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s). 
   Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =
"0123456789abCc:dDeEfF:hHiI:lLnNnPpQqrRsStTuU:vwWX:YZ";

/* Values for long options that do not have single-letter equivalents. */
enum
{
   BINARY_OPTION = CHAR_MAX + 1,
   FROM_FILE_OPTION,
   HELP_OPTION,
   HORIZON_LINES_OPTION,
   IGNORE_FILE_NAME_CASE_OPTION,
   INHIBIT_HUNK_MERGE_OPTION,
   LEFT_COLUMN_OPTION,
   LINE_FORMAT_OPTION,
   NO_DEREFERENCE_OPTION,
   NO_IGNORE_FILE_NAME_CASE_OPTION,
   NORMAL_OPTION,
SDIFF_MERGE_ASSIST_OPTION,
STRIP_TRAILING_CR_OPTION,
SUPPRESS_BLANK_EMPTY_OPTION,
SUPPRESS_COMMON_LINES_OPTION,
TABSIZE_OPTION,
TO_FILE_OPTION,

/* These options must be in sequence. */
UNCHANGED_LINE_FORMAT_OPTION,
OLD_LINE_FORMAT_OPTION,
NEW_LINE_FORMAT_OPTION,

/* These options must be in sequence. */
UNCHANGED_GROUP_FORMAT_OPTION,
OLD_GROUP_FORMAT_OPTION,
NEW_GROUP_FORMAT_OPTION,
CHANGED_GROUP_FORMAT_OPTION
];

static char const group_format_option[][sizeof "--unchanged-group-format"] =
{
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[][sizeof "--unchanged-line-format"] =
{
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};

static struct option const longopts[] =
{
    {"binary", 0, 0, BINARY_OPTION},
    {"brief", 0, 0, 'q'},
    {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
    {"context", 2, 0, 'C'},
    {"ed", 0, 0, 'e'},
    {"exclude", 1, 0, 'x'},
    {"exclude-from", 1, 0, 'X'},
    {"expand-tabs", 0, 0, 't'},
    {"forward-ed", 0, 0, 'f'},
    {"from-file", 1, 0, FROM_FILE_OPTION},
    {"help", 0, 0, HELP_OPTION},
    {"horizon-lines", 1, 0, HORIZON_LINES_OPTION},
}
/* Return a string containing the command options with which diff was invoked. 
Spaces appear between what were separate ARGV-elements. 
There is a space at the beginning but none at the end. 
If there were no options, the result is an empty string. 

Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT, the length of that vector. */

static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;

    for (i = 0; i < count; i++)
        size += 1 + shell_quote_length (optionvec[i]);

    p = result = xmalloc (size);

    for (i = 0; i < count; i++)
    {
        *p++ = ' '; 
        p = shell_quote_copy (p, optionvec[i]);
    }

    *p = '\0';
    return result;
}

/* Return an option value suitable for add_exclude. */

static int
exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    lin ocontext = -1;
bool explicit_context = false;
size_t width = 0;
bool show_c_function = false;
char const *from_file = NULL;
char const *to_file = NULL;
uintmax_t numval;
char *numend;

/* Do our initializations. */
exit_failure = EXIT_TROUBLE;
initialize_main (&argc, &argv);
set_program_name (argv[0]);
setlocale (LC_ALL, "");
bindtextdomain (PACKAGE, LOCALEDIR);
textdomain (PACKAGE);
c_stack_action (0);
function_regexp_list.buf = &function_regexp;
ignore_regexp_list.buf = &ignore_regexp;
re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
excluded = new_exclude ();

/* Decode the options. */
while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
{
    switch (c)
    {
        case 0:
            break;
        case '0':
        case '1':
        case '2':
        case '3':
        case '4':
        case '5':
        case '6':
        case '7':
        case '8':
        case '9':
            if (! ISDIGIT (prev))
                ocontext = c - '0';
            else if ( (LIN_MAX / 10 < ocontext
                ||  ((ocontext = 10 * ocontext + c - '0') < 0))
                ocontext = LIN_MAX;
            break;
        case 'a':
text = true;
break;

case 'b':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space = IGNORE_SPACE_CHANGE;
    break;

case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
    break;

case 'B':
    ignore_blank_lines = true;
    break;

case 'C':
    case 'U':
    {
        if (optarg)
            numval = strtoumax (optarg, &numend, 10);
        if (*numend)
            try_help ("invalid context length \"%s\", optarg);
        if (LIN_MAX < numval)
            numval = LIN_MAX;
        else
            numval = 3;
        
        specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
        if (context < numval)
            context = numval;
        explicit_context = true;
    }
    break;

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;
case 'D':
specify_style (OUTPUT_IFDEF);
{
    static char const C_ifdef_group_formats[] =
        "%%=%c#ifndef %s
%%<#endif /* ! %s */
%c#ifdef %s
%%>#endif /* %s */
%c#ifndef %s
%%<#else /* %s */
%%>#endif /* %s */
";
    char *b = xmalloc (sizeof C_ifdef_group_formats
        + 7 * strlen (optarg) - 14 /* 7*"%s" */
        - 8 /* 5"%%" + 3"%c" */);
    sprintf (b, C_ifdef_group_formats,
        optarg, optarg, optarg, optarg, optarg, optarg);
    for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
    {
        specify_value (&group_format[i], b, "-D");
        b += strlen (b) + 1;
    }
}
break;

case 'e':
specify_style (OUTPUT_ED);
break;

case 'E':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TAB_EXPANSION;
    break;

case 'f':
specify_style (OUTPUT_FORWARD_ED);
break;

case 'F':
    add_regexp (&function_regexp_list, optarg);
    break;

case 'h':
    /* Split the files into chunks for faster processing.
       Usually does not change the result.

       This currently has no effect. */
    break;

case 'H':
speed_large_files = true;

break;

case 'I':
    ignore_case = true;
    break;

case 'I':
    add_regexp (&ignore_regexp_list, optarg);
    break;

case 'l':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;
    #ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
    #endif
    break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[[:alpha:]$_]" );
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':

brief = true;
break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
                 AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
                         exclude_options (), 'n'))
        pfatal_with_name (optarg);
    break;
case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtomax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid width ""%s"", optarg);
    if (width != numval)
        { 
        if (width)
            fatal ("conflicting width options");
        width = numval;
        }
    break;

case BINARY_OPTION:
    #if O_BINARY
    binary = true;
    if (! isatty (STDOUT_FILENO))
        set_binary_mode (STDOUT_FILENO, O_BINARY);
    #endif
    break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
    break;

case HELP_OPTION:
    usage ()
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtomax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length ""%s"", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize " "%s", optarg);
    if (tabsize != numval)
    {
        if (tabsize)
fatal ("conflicting tabsize options");
    tabsize = numval;
}
break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, ",--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);
{
    prev = c;
}

if (output_style == OUTPUT_UNSPECIFIED)
{
    if (show_c_function)
    {
        specify_style (OUTPUT_CONTEXT);
        if (ocontext < 0)
            context = 3;
    }
    else
        specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \
    || defined HAVE_STRUCT_STAT_ST_SPARE1)
time_format = "%Y-%m-%d %H:%M:%S.%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
else
{
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && ! explicit_context))
    context = ocontext;

if (! tabsize)
    tabsize = 8;
if (! width)
    width = 130;

{
    /* Maximize first the half line width, and then the gutter width,
       according to the following constraints:

       1. Two half lines plus a gutter must fit in a line.
       2. If the half line width is nonzero:
          a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
          b. If tabs are not expanded to spaces,
             a half line plus a gutter is an integral number of tabs,
             so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
    intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
    sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
    sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
    horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);
if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
if (!line_format[i])
    line_format[i] = "%\n";
    if (!group_format[OLD])
        group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
        group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
        group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
        group_format[CHANGED] = concat (group_format[OLD],
            group_format[NEW], "\n");
}

no_diff_means_no_output =
    (output_style == OUTPUT_IFDEF ?
      (!*group_format[UNCHANGED] || (STREQ (group_format[UNCHANGED], "%=") && !*line_format[UNCHANGED])) :
        (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
    (brief & binary
    && ~(ignore_blank_lines | ignore_case | strip_trailing_cr
        | (ignore_regexp_list.regexps || ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
        fatal ("--from-file and --to-file both specified");
    else
        for (; optind < argc; optind++)
            { int status = compare_files (NULL, from_file, argv[optind]);
                if (exit_status < status)
                    exit_status = status;
            }
        }
else

    if (to_file)
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, argv[optind], to_file);
    if (exit_status < status)
        exit_status = status;
}
else
{
    if (argc - optind != 2)
    {
        if (argc - optind < 2)
            try_help ("missing operand after ""%s"", argv[argc - 1]);
        else
            try_help ("extra operand ""%s"", argv[optind + 2]);
    }
    exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}
/* Print any messages that were saved up for last. */
print_message_queue ();
check_stdout ();
exit (exit_status);
return exit_status;

/* Append to REGLIST the regexp PATTERN. */
static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);
    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
    {
        char *regexps = reglist->regexps;
        size_t len = reglist->len;
        bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
        size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
        size_t size = reglist->size;
        if (size <= newlen)
        {
if (!size)
    size = 1;

do size *= 2;
while (size <= newlen);

reglist->size = size;
reglist->regexps = regexps = xrealloc (regexps, size);
}
    if (multiple_regexps)
    {
        regexps[len++] = '\';
        regexps[len++] = '|';
    }
    memcpy (regexps + len, pattern, patlen + 1);
}

/* Ensure that REGLIST represents the disjunction of its regexps.  
This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
    if (reglist->regexps)
    {
        /* At least one regexp was specified.  Allocate a fastmap for it. */
        reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
        if (reglist->multiple_regexps)
        {
            /* Compile the disjunction of the regexps.  
            (If just one regexp was specified, it is already compiled.) */
            char const *m = re_compile_pattern (reglist->regexps, reglist->len,
                reglist->buf);
            if (m)
                error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
        }
    }

static void
try_help (char const *reason_msgid, char const *operand)
{
    if (reason_msgid)
        error (0, 0, _(reason_msgid), operand);
    error (EXIT_TROUBLE, 0, _("Try \"%s --help\" for more information."),
        program_name);
    abort();
}
static void
check_stdout (void)
{
  if (ferror (stdout))
    fatal ("write failed");
else if (fclose (stdout) != 0)
  pfatal_with_name (_("standard output"));
}

static char const * const option_help_msgid[] = {
  N_("--normal          output a normal diff (the default)"),
  N_("-q, --brief        report only when files differ"),
  N_("--report-identical-files report when two files are the same"),
  N_("--context[=NUM]     output NUM (default 3) lines of copied context"),
  N_("--unified[=NUM]     output NUM (default 3) lines of unified context"),
  N_("--ed              output an ed script"),
  N_("--rcs             output an RCS format diff"),
  N_("--side-by-side     output in two columns"),
  N_("--width=NUM       output at most NUM (default 130) print columns"),
  N_("--left-column     output only the left column of common lines"),
  N_("--suppress-common-lines do not output common lines"),
  N_("--show-c-function show which C function each change is in"),
  N_("--show-function-line=RE show the most recent line matching RE"),
  N_("--label LABEL      use LABEL instead of file name (can be repeated)"),
  N_("--expand-tabs      expand tabs to spaces in output"),
  N_("--initial-tab     make tabs line up by prepending a tab"),
  N_("--tabsize=NUM     tab stops every NUM (default 8) print columns"),
  N_("--suppress-blank-empty suppress space or tab before empty output lines"),
  N_("--paginate        pass output through 'pr' to paginate it"),
  N_("--recursive       recursively compare any subdirectories found"),
  N_("--no-dereference  don't follow symbolic links"),
  N_("--new-file        treat absent files as empty"),
  N_("--unidirectional-new-file treat absent first files as empty"),
  N_("--ignore-file-name-case ignore case when comparing file names"),
  N_("--no-ignore-file-name-case consider case when comparing file names"),
  N_("--exclude=PATH    exclude files that match PATH"),
  N_("--exclude-from=FILE exclude files that match any pattern in FILE"),
  N_("--starting-file=FILE start with FILE when comparing directories"),
  N_("--from-file=FILE1  compare FILE1 to all operands\n" FILE1 can be a directory"),
  N_("--to-file=FILE2    compare all operands to FILE2\n" FILE2 can be a directory"),
N_-i, --ignore-case               ignore case differences in file contents"),
N_-E, --ignore-tab-expansion      ignore changes due to tab expansion"),
N_-Z, --ignore-trailing-space     ignore white space at line end"),
N_-b, --ignore-space-change       ignore changes in the amount of white space"),
N_-w, --ignore-all-space          ignore all white space"),
N_-B, --ignore-blank-lines        ignore changes where lines are all blank"),
N_-I, --ignore-matching-lines=RE  ignore changes where all lines match RE"),

N_-a, --text                      treat all files as text"),
N_

N_-strip-trailing-cr strip trailing carriage return on input"),

N_-binary read and write data in binary mode"),

N_-D, --ifdef=NAME                output merged file with '#ifdef NAME' diffs"),
N_--GTYPE-group-format=GFMT format GTYPE input groups with GFMT"),
N_--line-format=LFMT format all input lines with LFMT"),
N_--LTYPE-line-format=LFMT format LTYPE input lines with LFMT"),
N_These format options provide fine-grained control over the output

" of diff, generalizing -D/--ifdef."),
N_`LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'.`"),
N_GFMT (only) may contain:\n
%< lines from FILE1\n
>% lines from FILE2\n
%= lines common to FILE1 and FILE2\n
%-[\-][WIDTH][\-][PREC][doxX]LETTER printf-style spec for LETTER\n
LETTERs are as follows for new group, lower case for old group:\n
F first line number\n
L last line number\n
N number of lines = L-F+1\n
E F-1\n
M L+1\n
%(A=B?T:E) if A equals B then T else E"),
N_LFMT (only) may contain:\n
%L contents of line\n
%I contents of line, excluding any trailing newline\n
%-[\-][WIDTH][\-][PREC][doxX]n printf-style spec for input line number"),
N_Both GFMT and LFMT may contain:\n
%\%\%\%

%c'C' the single character C\n
%c\%OOO the character with octal code OOO\n
C the character C (other characters represent themselves")"),

N_-d, --minimal try hard to find a smaller set of changes"),
N_-horizon-lines=NUM keep NUM lines of the common prefix and suffix"),
N_-speed-large-files assume large files and many scattered small changes"),
static void
usage (void)
{
char const * const *p;

printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
printf (_("Mandatory arguments to long options are mandatory for short options too.\n"), stdout);

for (p = option_help_msgid;  *p;  p++)
{
  if (!**p)
    putchar ('\n');
  else
    {
      char const *msg = _(*p);
      char const *nl;
      while ((nl = strchr (msg, '\n')))
        {
          int msglen = nl + 1 - msg;
          printf (_("  %.*s", msglen, msg);
          msg = nl + 1;
        }
      printf (_("  %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
    }
}
emit_bug_reporting_address ();
}

/* Set VAR to VALUE, reporting an OPTION error if this is a
  conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
if (*var && ! STREQ (*var, value))
{
error (0, 0, _("conflicting %s option value '%s'"), option, value);
try_help (NULL, NULL);
}
*var = value;
}
/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
if (output_style != style)
{
if (output_style != OUTPUT_UNSPECIFIED)
try_help ("conflicting output style options", NULL);
output_style = style;
}
}
/* Set the last-modified time of *ST to be the current time. */
static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
gettime (&STAT_TIMESPEC (st, st_mtim));
#else
struct timespec t;
gettime (&t);
st->st_mtime = t.tv_sec;
# if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
# elif defined HAVE_STRUCT_STAT_ST_SPARE1
st->st_spare1 = t.tv_nsec / 1000;
# endif
#endif
}
/* Compare two files (or dirs) with parent comparison PARENT
and names NAME0 and NAME1.
(If PARENT is null, then the first name is just NAME0, etc.)
This is self-contained; it opens the files and closes them.
Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */
static int

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compare_files (struct comparison const *parent,
   char const *name0,
   char const *name1)
{
  struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
  register int f;
  int status = EXIT_SUCCESS;
  bool same_files;
  char *free0;
  char *free1;

  /* If this is directory comparison, perhaps we have a file
     that exists only in one of the directories.
     If so, just print a message to that effect. */
  if (! ((name0 && name1)
       || (unidirectional_new_file && name1)
       || new_file))
  {
    char const *name = name0 ? name0 : name1;
    char const *dir = parent->file[!name0].name;

    /* See POSIX 1003.1-2001 for this format. */
    message ("Only in %s: %s\n", dir, name);

    /* Return EXIT_FAILURE so that diff_dirs will return
       EXIT_FAILURE ("some files differ"). */
    return EXIT_FAILURE;
  }

  memset (cmp.file, 0, sizeof cmp.file);
  cmp.parent = parent;

  /* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

  cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
  cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

  /* Now record the full name of each file, including nonexistent ones. */
  if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
{
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0 = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1 = file_name_concat (parent->file[1].name, name1, NULL);
}

/* Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && !isatty (STDIN_FILENO))
                set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
                cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
            {
                if (S_ISREG (cmp.file[f].stat.st_mode))
                {
                    off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
                    if (pos < 0)
                        cmp.file[f].desc = ERRNO_ENCODE (errno);
                    else
                        cmp.file[f].stat.st_size = MAX (0, cmp.file[f].stat.st_size - pos);
                }
            }
        }
/* POSIX 1003.1-2001 requires current time for stdin. */
set_mtime_to_now (&cmp.file[f].stat);
}
}
else if (!no_dereference_symlinks
?
lstat (cmp.file[f].name, &cmp.file[f].stat)
: stat (cmp.file[f].name, &cmp.file[f].stat))
!= 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
}
}

/* Mark files as nonexistent as needed for -N and -P, if they are inaccessible empty regular files (the kind of files that 'patch' creates to indicate nonexistent backups), or if they are top-level files that do not exist but their counterparts do exist. */
for (f = 0; f < 2; f++)
if ((new_file || (f == 0 && unidirectional_new_file))
&& (cmp.file[f].desc == UNOPENED
? (S_ISREG (cmp.file[f].stat.st_mode)
    && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
    && cmp.file[f].stat.st_size == 0)
    : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
        || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
        && ! parent
        && (cmp.file[1 - f].desc == UNOPENED
        || cmp.file[1 - f].desc == STDIN_FILENO)))
    cmp.file[f].desc = NONEXISTENT;
}

for (f = 0; f < 2; f++)
if (cmp.file[f].desc == NONEXISTENT)
{
    memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
    cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
}

for (f = 0; f < 2; f++)
{
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
    {
        errno = e;
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
    }
}
if (status == EXIT_SUCCESS && ! parent && (DIR_P (0) != DIR_P (1)))
{
    /* If one is a directory, and it was specified in the command line,
    use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
     = find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "-"))
        fatal ("cannot compare '-' to a directory");

    if (((no_dereference_symlinks
         ? lstat (filename, &cmp.file[dir_arg].stat)
         : stat (filename, &cmp.file[dir_arg].stat))
        != 0)
    {
        perror_with_name (filename);
        status = EXIT_TROUBLE;
    }
}

if (status != EXIT_SUCCESS)
{
    /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
         && cmp.file[1].desc == NONEXISTENT)
{
    /* Neither file "exists", so there's nothing to compare. */
}
else if (same_files
         = (cmp.file[0].desc != NONEXISTENT
             && cmp.file[1].desc != NONEXISTENT
             && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
             && same_file_attributes (&cmp.file[0].stat,
                                      &cmp.file[1].stat))
         && no_diff_means_no_output)
{
    /* The two named files are actually the same physical file.
    We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{

if (output_style == OUTPUT_IFDEF)
fatal("-D option not supported with directories");

/* If both are directories, compare the files in them. */

if (parent && !recursive)
{
    /* But don't compare dir contents one level down
     * unless -r was specified.
     * See POSIX 1003.1-2001 for this format. */
    message("Common subdirectories: %s and %s\n",
            cmp.file[0].name, cmp.file[1].name);
}
else
    status = diff_dirs(&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))        
    && !(S_ISREG (cmp.file[0].stat.st_mode)        
          || S_ISLINK (cmp.file[0].stat.st_mode))        
    && (S_ISREG (cmp.file[1].stat.st_mode)        
         || S_ISLINK (cmp.file[1].stat.st_mode)))
{
    if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
    {
        /* We have a subdirectory that exists only in one directory. */
        if ((DIR_P (0) | DIR_P (1))        
            && recursive        
            && (new_file        
                && cmp.file[0].desc == NONEXISTENT)))
            status = diff_dirs(&cmp, compare_files);
    else
    {
        char const *dir;

        /* PARENT must be non-NULL here. */
        assert(paren);
        dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

        /* See POSIX 1003.1-2001 for this format. */
        message("Only in %s: %s\n", dir, name0);

        status = EXIT_FAILURE;
    }
}
else
We have two files that are not to be compared.

See POSIX 1003.1-2001 for this format.

message5 ("File %s is a %s while file %s is a %s\n", file_label[0] ? file_label[0] : cmp.file[0].name, file_type (&cmp.file[0].stat), file_label[1] ? file_label[1] : cmp.file[1].name, file_type (&cmp.file[1].stat));

This is a difference.

status = EXIT_FAILURE;
}
}
else if (S_ISLNK (cmp.file[0].stat.st_mode) || S_ISLNK (cmp.file[1].stat.st_mode))
{
/* We get here only if we use lstat(), not stat(). */
assert (no_dereference_symlinks);

if (S_ISLNK (cmp.file[0].stat.st_mode) && S_ISLNK (cmp.file[1].stat.st_mode))
{
/* Compare the values of the symbolic links. */
char *link_value[2] = { NULL, NULL };

for (f = 0; f < 2; f++)
{
    link_value[f] = xreadlink (cmp.file[f].name);
    if (link_value[f] == NULL)
    {
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
        break;
    }
}
if (status == EXIT_SUCCESS)
{
    if ( ! STREQ (link_value[0], link_value[1]))
    {
        message ("Symbolic links %s and %s differ\n", cmp.file[0].name, cmp.file[1].name);
        /* This is a difference. */
        status = EXIT_FAILURE;
    }
    for (f = 0; f < 2; f++)
        free (link_value[f]);
else
{

/* We have two files that are not to be compared, because
one of them is a symbolic link and the other one is not. */

message5("File %s is a %s while file %s is a %s
",
file_label[0] ? file_label[0] : cmp.file[0].name,
file_type(&cmp.file[0].stat),
file_type(&cmp.file[1].stat));

/* This is a difference. */
status = EXIT_FAILURE;
}
}
else if (files_can_be_treated_as_binary
&& S_ISREG(cmp.file[0].stat.st_mode)
&& S_ISREG(cmp.file[1].stat.st_mode)
&& cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
message("Files %s and %s differ
",
file_label[0] ? file_label[0] : cmp.file[0].name,
status = EXIT_FAILURE;
}
else
{

/* Both exist and neither is a directory. */

/* Open the files and record their descriptors. */

int oflags = O_RDONLY | (binary ? O_BINARY : 0);

if (cmp.file[0].desc == UNOPENED)
if ((cmp.file[0].desc = open(cmp.file[0].name, oflags, 0)) < 0)
{
 perror_with_name(cmp.file[0].name);
status = EXIT_TROUBLE;
}
if (cmp.file[1].desc == UNOPENED)
{
if (same_files)
cmp.file[1].desc = cmp.file[0].desc;
else if ((cmp.file[1].desc = open(cmp.file[1].name, oflags, 0)) < 0)
{
 perror_with_name(cmp.file[1].name);
status = EXIT_TROUBLE;
}
/* Compare the files, if no error was found. */

    if (status == EXIT_SUCCESS)
status = diff_2_files (&cmp);

/* Close the file descriptors. */

    if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
        && close (cmp.file[1].desc) != 0)
    {
        perror_with_name (cmp.file[1].name);
        status = EXIT_TROUBLE;
    }

/* Now the comparison has been done, if no error prevented it,
and STATUS is the value this function will return. */

    if (status == EXIT_SUCCESS)
    {
        if (report_identical_files && !DIR_P (0))
            message ("Files %s and %s are identical

file_label[0] ? file_label[0] : cmp.file[0].name,
        }
    else
    {
        /* Flush stdout so that the user sees differences immediately.
This can hurt performance, unfortunately. */
            if (fflush (stdout) != 0)
        pfatal_with_name (_("standard output"));
    }

free (free0);
free (free1);
return status;

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1.1068 yasson 1.0.5

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* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/address/package-info.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/address/package-info.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
  jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
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jar/io/netty/handler/ssl/ClientAuth.java
* /opt/ws_local/PERMITS_SQL/1068412657_1594399037.59/0/netty-handler-4-1-48-final-sources-1-
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1.1079 openjdk 11.0.11

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```markdown
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include/GL/wglxext.h :

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```---
## ASM Bytecode Manipulation Framework v6.0

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
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Classifier: Programming Language :: Python :: 2.4
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ASN.1 library for Python

------------------------

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

----------------
ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType('room', Integer(), subtype(
      implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
    )
  ),
  DefaultedNamedType(
```
It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```  
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```  
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

-------------

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python

.. toctree::
   :maxdepth: 1
Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's ProtoBuffers or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific
implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics `<http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
-------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

The PyASN1 software is distributed under 2-clause BSD License.


The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we’d highly recommend reading a proper book on the subject.

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1.1089 icu 66

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SONAME))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
    | sed "s/\($*\)\.o\[ :\]*/\1.o $@ : /g" > $@;\ 
    [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
    | sed "s/\($*\)\.o\[ :\]*/\1.o $@ : /g" > $@;\ 
    [ -s $@ ] || rm -f $@'

## Versioned libraries rules
Open Source Used In SDWan 20.6.1 10719

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
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Theodore Ts'o
23-June-2007

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HK2 API module
HK2 Implementation Utilities
Jakarta Annotations API
jakarta.ws.rs-api
javax.inject:1 as OSGi bundle
javax.ws.rs-api
jersey-container-servlet
jersey-container-servlet-core
jersey-core-client
jersey-core-common
jersey-core-server
jersey-inject-hk2
jersey-media-jaxb
ServiceLocator Default Implementation
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<signature of Ty Coon>, 1 April 1990
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1.1111 update-rc-d 0.7
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```
#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
# (c) 2003, 2004 Phil Blundell <pb@handhelds.org>
#
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initd="/etc/init.d"
etcd="/etc/rc"
notreally=0
force=0
dostart=0
verbose=0

usage()
{
    cat >&2 <<EOF
    update-rc.d [-n] [-r <root>] [-s] <basename> defaults [NN | sNN kNN]
-n: not really
-f: force
-v: verbose
-r: alternate root path (default is /)
-s: invoke start methods if appropriate to current runlevel
EOF
}

checklinks()
```
```bash
local i dn fn remove=0
if [ "x$f1" = "xremove" ]; then
    echo " Removing any system startup links for $bn ..."
    remove=1
fi
for i in 0 1 2 3 4 5 6 7 8 9 S; do
dn="$etcd${i}.d"
if [ ! -d $dn ]; then
    continue;
fi
for f in ${dn}/[SK]?${bn}; do
    if [ -L $f ]; then
        if [ $remove -eq 0 ]; then
            return 1
        fi
        echo "$f"
        if [ $notreally -eq 1 ]; then
            continue
        fi
        rm $f
    fi
    done
    done
    return 0
}
dolink()
{
    startstop=$1
    lev=`echo $2 | cut -d/ -f1`
nn=`echo $2 | cut -d/ -f2`
fn="${etcd}${lev}.d/${startstop}${nn}${bn}"
    [ $verbose -eq 1 ] && echo "$fn -> ../init.d/$bn"
    if [ $notreally -eq 0 ]; then
        mkdir -p `dirname $fn`
        ln -s ../init.d/$bn $fn
    fi
    if [ $dostart -eq 1 ] && [ $startstop = "$S" ] && [ $lev = $RUNLEVEL ]; then
        $fn start || true
    fi
}
makelinks()
{
    if ! checklinks; then
```
echo " System startup links for $initd/$bn already exist.
if [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [ -L ${etcd}${RUNLEVEL}.d/S??${bn} ]; then
${etcd}${RUNLEVEL}.d/S??${bn} restart || true
fi
exit 0
fi

echo " Adding system startup for $initd/$bn."

for i in $startlinks; do
dolink S $i
done
for i in $stoplinks; do
dolink K $i
done
}

while [ $# -gt 0 ]; do
case $1 in
  -n)
    notreally=1
    shift
    continue
    ;;
  -v)
    verbose=1
    shift
    continue
    ;;
  -f)
    force=1
    shift
    continue
    ;;
  -s)
    dostart=1
    shift
    continue
    ;;
  -r)
    shift
    root=$1
    initd="${root}${initd}"
    etcd="${root}${etcd}"
    shift
    ;;
  -h | --help)
    usage
    exit 0
    ;;
  -*)
    usage
    exit 1
    ;;
  *)
    usage
    exit 1
  ;;
esac
shift $1
$1
exit 0
fi
if [ $# -lt 2 ]; then
  usage
  exit 1
fi

bn=$1
shift

sn=$initd/$bn
if [ -L "$sn" -a -n "$root" ]; then
  if which readlink >/dev/null; then
    while true; do
      linksn="$(readlink "$sn")"
      if [ -z "$linksn" ]; then
        break
      fi
    done
  else
    echo "update-rc.d: readlink tool not present, cannot check whether \\ $sn symlink points to a valid file." >&2
    fi
  fi
else
  echo "update-rc.d: $initd/$bn: file does not exist" >&2
  exit 1
else
  if [ $1 != "remove" ]; then
    if [ ! -f "$sn" ]; then
      echo "update-rc.d: $initd/$bn: file does not exist" >&2
      exit 1
    fi
    else
      if [ $force -eq 1 ]; then
        echo "update-rc.d: $initd/$bn exists during rc.d purge (continuing)" >&2
      else
        echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
        exit 1
      fi
  fi
  fi

  if [ $force -eq 1 ]; then
    echo "update-rc.d: $initd/$bn exists during rc.d purge (force)" >&2
  else
    echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
    exit 1
  fi

  if [ $1 != "remove" ]; then
    if [ ! -f "$sn" ]; then
      echo "update-rc.d: $initd/$bn: file does not exist" >&2
      exit 1
    fi
    else
      if [ $force -eq 1 ]; then
        echo "update-rc.d: $initd/$bn exists during rc.d purge (continuing)" >&2
      else
        echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
        exit 1
      fi
  fi

  if [ $force -eq 1 ]; then
    echo "update-rc.d: $initd/$bn exists during rc.d purge (force)" >&2
  else
    echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
    exit 1
  fi

  if [ $force -eq 1 ]; then
    echo "update-rc.d: $initd/$bn exists during rc.d purge (force)" >&2
  else
    echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
    exit 1
  fi
if [ $dostart -eq 1 ]; then
  #RUNLEVEL=`sed 's/.*\[\(.*\)\]\]*/\1/' < /proc/1/cmdline`  
  RUNLEVEL=`runlevel | cut -d" " -f2`  
  if [ "x$RUNLEVEL" = "x" ]; then
    echo "Unable to determine current runlevel" >&2
    exit 1
  fi
  fi

  case $1 in
  remove)
    checklinks "remove"
    ;;
  defaults)
    if [ $# -gt 3 ]; then
      echo "defaults takes only one or two arguments" >&2
      usage
      exit 1
    fi
    start=20
    stop=20
    if [ $# -gt 1 ]; then
      start=$2
      stop=$2
    fi
    if [ $# -gt 2 ]; then
      stop=$3
    fi
    start=`printf %02d $start`
    stop=`printf %02d $stop`
    stoplinks="0/$stop 1/$stop 6/$stop"
    startlinks="2/$start 3/$start 4/$start 5/$start"
    makelinks
    ;;
  start | stop)
    while [ $# -gt 0 ]; do
      if [ $1 = "start" ]; then
        letter=S
      elif [ $1 = "stop" ]; then
        letter=K
      else
        echo "expected start or stop" >&2
      fi
    done
    ;;
  esac
fi
usage
exit 1
fi
shift
NN=`printf %02d $(expr $1 + 0)`
shift
while [ "x$1" != "x." ]; do
if [ $# -eq 0 ]; then
  echo "action with list of runlevels not terminated by \\." >&2
  exit 1
fi
level=$1
shift
case $letter in
  S) startlinks="$startlinks $level/$NN" ;;
  K) stoplinks="$stoplinks $level/$NN" ;;
esac
done
shift
done
makelinks
;;

*)
usage
exit 1
::
esac

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Version 2, June 1991

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  jar/org/objectweb/asm/tree/LocalVariableNode.java
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* /opt/ws_local/PERMITS_SQL/1094807319_1601321046.3/0/wildfly-elytron-realm-jdbc-1-11-4-final-sources-jar/org/wildfly/security/auth/realm/jdbc/ColumnMapper.java
* /opt/ws_local/PERMITS_SQL/1094807319_1601321046.3/0/wildfly-elytron-realm-jdbc-1-11-4-final-sources-jar/org/wildfly/security/auth/realm/jdbc/QueryBuilder.java
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* /opt/ws_local/PERMITS_SQL/1094807319_1601321046.3/0/wildfly-elytron-realm-jdbc-1-11-4-final-sources-jar/org/wildfly/security/auth/realm/jdbc/mapper/PasswordKeyMapper.java

1.1119 xorg 7.7+19
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Source Package: xorg
Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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"The confidential flag of a ConfigProperty instance is "confidential". This method is used to get the confidential flag.

private boolean confidential;

public ConfigProperty(String name, boolean dynamic, boolean confidential) {
    this.confidential = confidential;
    // Get the confidential flag of a ConfigProperty instance
    sb.append("confidential=").append(confidential);
}

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1.1124 wildfly-deployment-repository

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1.1127 jna 5.5.0

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1.1128 wildfly-clustering-marshalling-api

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1.1131 orientdb-tools 2.2.31
1.1132 smallrye-fault-tolerance 4.1.1

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1.1134 json-cpp 1.8.4

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1.1139 libgcrypt 1.8.4 5
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rguyom@mail.dotcom.fr

ANY  g10 Code GmbH  2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz  2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson  2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode, CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte  2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos  2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word  2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in, src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards  2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang  2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT Werner Dittmann  2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)
GNUPG        David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT      Andrey Jivsov      2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
(cipher/camellia-glue.c and related files)

LIBGCRYPT      Ulrich MÃ¼ller    2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCRYPT      Vladimir Serbinenko 2012-04-26
Assigns Past and Future Changes
phcoder@gmail.com
(cipher/serpent.c)

Authors with a DCO
==================
Andrei Scherer <andsch@inbox.com>
2014-08-22:BF7CEF794F9.000003F0andsch@inbox.com:

Christian Aistleitner <christian@quelltextlich.at>
2013-02-26:20130226110144.GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>
2013-07-13:20130713144407.GA27334@fangorn.rup.mentorg.com:

Dmitry Kasatkin <dmitry.kasatkin@intel.com>
2012-12-14:50CAE2DB.80302@intel.com:

JÂ©rÃ©mie CourrÃ¨ges-Anglas <jca@wxcvbn.org>
2016-05-26:87bn3ssqg0.fsf@ritchie.wxcvbn.org

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>
2012-11-15:20121115172331.150537dzb5i6jmy8@www.dalek.fi:

Jussi Kivilinna <jussi.kivilinna@iki.fi>
2013-05-06:5186720A.4090101@iki.fi:
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The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
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stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Woodstox is an XML-parser that allows parsing of XML documents in so-called pull mode (aka "pull parsing"). It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>.

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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
GIT: 6e63b53

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boilerpipe

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XZ for Java 1.0 (2011-10-22)

http://tukaani.org/xz/java.html

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Byte Buddy is a code generation and manipulation library for creating and modifying Java classes during the runtime of a Java application and without the help of a compiler.

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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before
<<understanding-analyzers-tokenizers-and-filters.adoc#understanding-analyzers-tokenizers-and-filters,analysis>> is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by
default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
---
<copyField source="*_t" dest="text" maxChars="25000" />
---

[IMPORTANT]
=====

The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.

=====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., _you cannot_ copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]
---
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
---

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May 22, 2015

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Fernando Perez began IPython in 2001 based on code from Janko Hauser <jhauser@zscout.de> and Nathaniel Gray <n8gray@caltech.edu>. Fernando is still the project leader.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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If distribution of object code is made by offering access to copy
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Library, but is designed to work with the Library by being compiled or
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

MortBay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1170 wildfly-jaxrs 19.1.0.Final

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1.1172 lang-mustache-client 6.8.10

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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])
 * version.
 */
* @param mv
*       the <code>MethodVisitor</code> to send the resulting inlined
*       method code to (use <code>null</code> for none).
* @param access
*       the method’s access flags (see [ @link Opcodes ]). This
*       parameter also indicates if the method is synthetic and/or
*       deprecated.
* @param name
*       the method's name.
* @param desc
*       the method's descriptor (see [ @link Type ]).
* @param signature
*       the method's signature. May be <tt>null</tt>.
* @param exceptions
*       the internal names of the method's exception classes (see
*       [ @link Type#getName() getInternalName]). May be
*       <tt>null</tt>.
* @throws IllegalStateException
*       If a subclass calls this constructor.
*/

Found in path(s):
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/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/xml/ASMContentHandler.java

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/**
* Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
* *
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 *            the owner's class name.
 * @param access
 *            the method's access flags (see {@link Opcodes}).
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see {@link Type Type}).
 * @param mv
 *            the method visitor to which this adapter delegates calls. May
 *            be <tt>null</tt>.
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

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@param typeRef
   a reference to the annotated type. See \{@link TypeReference\}.

@param typePath
   the path to the annotated type argument, wildcard bound, array
   element type, or static inner type within 'typeRef'. May be
   <tt>null</tt> if the annotation targets 'typeRef' as a whole.

@param start
   the fist instructions corresponding to the continuous ranges
   that make the scope of this local variable (inclusive).

@param end
   the last instructions corresponding to the continuous ranges
   that make the scope of this local variable (exclusive). This
   array must have the same size as the 'start' array.

@param index
   the local variable's index in each range. This array must have
   the same size as the 'start' array.

@param desc
   the class descriptor of the annotation class.

*/

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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
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*/
/**
 * Constructs a new '{@link ClassNode}'. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the '{@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/tree/ClassNode.java
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* /opt/cola/permits/1135996864_1613649419.76/0/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/shrink-writer.properties
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1.1175 jquery 3.1.0

1.1176 wildfly-cmp 19.1.0.Final

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1.1177 file 5.38

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1.1178 stateless4j 2.5.0

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 */

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* /opt/cola/permits/1150916823_1617719494.06/0/stateless4j-2-5-0-sources-6-jar/com/github/oxo42/stateless4j/OutVar.java
* /opt/cola/permits/1150916823_1617719494.06/0/stateless4j-2-5-0-sources-6-jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java

1.1179 django 1.11.15

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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=======================================
Advice for new contributors
=======================================

New contributor and not sure what to do? Want to help but just don't know how
to get started? This is the section for you.

.. admonition:: Basic tools and workflow

    If you are new to contributing to Django, the :doc:`/intro/contributing`
tutorial will give you an introduction to the tools and the workflow.

First steps
********

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

    The code that you write belongs to you or your employer. If your
    contribution is more than one or two lines of code, you need to sign the
    `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough
    explanation.

* **Triage tickets**

    If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you
    can reproduce it and it seems valid, make a note that you confirmed the bug
    and accept the ticket. Make sure the ticket is filed under the correct
    component area. Consider writing a patch that adds a test for the bug's
    behavior, even if you don't fix the bug itself. See more at
    :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity
  with the codebase and the process**

    Mark the appropriate flags if a patch needs docs or tests. Look through the
    changes a patch makes, and keep an eye out for syntax that is incompatible
    with older but still supported versions of Python. :doc:`Run the tests
    </internals/contributing/writing-code/unit-tests>` and make sure they pass.
    Where possible and relevant, try them out on a database other than SQLite.
    Leave comments and feedback!

* **Keep old patches up to date**
Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

**Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

   The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

   .. _reports page: https://code.djangoproject.com/wiki/Reports

   .. _CLA: https://www.djangoproject.com/foundation/cla/

   .. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/

   .. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

**Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

**Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

**Start small**
It's easier to get feedback on a little issue than on a big one. See the `easy pickings`_.

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous**

When we say `:pep:`8`, and must have docs and tests`, we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ

```
1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?***

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?***

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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1.1185 systemd 241-7~deb10u4

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/package.html
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 */

/**
 * Creates a new JSRInliner. &lt;i&gt;Subclasses must not use this
 * constructor&lt;/i&gt;. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv

---

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* the <code>MethodVisitor</code> to send the resulting inlined method code to (use <code>null</code> for none).
* @param access
* the method's access flags (see { @link Opcodes}). This parameter also indicates if the method is synthetic and/or deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see { @link Type}).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see { @link Type#getInternalName() getInternalName}). May be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6.jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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the method's name.
* @param desc
  the method's descriptor (see \{@link Type Type\}).
* @throws IllegalStateException
  If a subclass calls this constructor.
*/

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 */

/**
 * Constructs a new \{@link Textifier\}. \(<i>Subclasses must not use this
 * constructor</i>\). Instead, they must use the \{@link #Textifier(int)\}
 * version.
 * 
 * @throws IllegalStateException
 *  If a subclass calls this constructor.
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/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
 * version.
 * @throws IllegalStateException
 * @throws NullPointerException
 */

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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
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* Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
* version.
*
* @param owner
  * the owner's class name.
* @param access
  * the method's access flags (see [@link Opcodes]).
* @param name
  * the method's name.
* @param desc
  * the method's descriptor (see [@link Type Type]).
* @param mv
  * the method visitor to which this adapter delegates calls. May
  * be <tt>null</tt>.
* @throws IllegalStateException
  * If a subclass calls this constructor.
*/

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1.1192 perl 5.22.1-9ubuntu0.6
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------

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The End

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.”
builtRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList:mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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<one line to give the program's name and a brief idea of what it does.>
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    Gnomovision version 69, Copyright (C) 19xx name of author
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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    Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

That's all there is to it!
#!perl

=head1 NAME
=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
donetesting;
sub readme_year
# returns the latest copyright year from the top-level README file
{

open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*(\d{4,})/s
  or die "Year not found in README copyright message 'Scopyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
  or die "Copyright statement not found in perl -v output '$output'";

$year;
}

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<signature of Ty Coon>, 1 April 1989
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1.1194 jinja2 2.11.2

1.1194.1 Available under license:
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```python
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*?)(?:\s+.*)?"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine."
    long_description=readme,
    classifiers=[
        "Development Status :: 5 - Production/Stable",
    ]
)```
"Environment :: Web Environment",
"Intended Audience :: Developers",
"License :: OSI Approved :: BSD License",
"Operating System :: OS Independent",
"Programming Language :: Python",
"Programming Language :: Python :: 2",
"Programming Language :: Python :: 2.7",
"Programming Language :: Python :: 3",
"Programming Language :: Python :: 3.5",
"Programming Language :: Python :: 3.6",
"Programming Language :: Python :: 3.7",
"Programming Language :: Python :: 3.8",
"Programming Language :: Python :: Implementation :: CPython",
"Programming Language :: Python :: Implementation :: PyPy",
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",

],
packages=find_packages("src"),
package_dir={"" : "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points="[babel.extractors] = jinja2 = jinja2.ext:babel_extract[i18n]"
)

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2.11.2-1-tar-gz/jinja2-2.11.2/setup.py

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* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/LICENSE.rst

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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

======

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
---------

Install and update using `pip`:

```bash
$ pip install -U Jinja2
```


In A Nutshell
-------------

```jinja
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}
```

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH
1.1195 iptables 1.6.2 2.0

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1.1208 rank-eval-client 6.8.10

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1.1209 libyaml 0.1.6

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1.1210 libtasn 4.10 1.el7

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# Get modification time of a file or directory and pretty-print it.

scriptversion=2010-08-21.06; # UTC

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<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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### 1.1211 cracklib 2.9.0

#### 1.1211.1 Available under license :

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.
unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. It isn't the place of a library to dictate to application writers what license they should be using. Thus LGPL-2.1 enters to fill this void.

2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...]
> [mailto:cracklib-devel-bounces@li...]
> On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didn't notice the
> license
> change until it was mentioned in the latest notes.
> =20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > > Seems like the ideal thing here would be for you and the other distro
> > > > maintainers to get together with Alec in a conversation and come to a
> > > > decision as to what licensing scheme y'all want. I haven't really done
> > > > much other than cleaning up the packaging and patches and a small
> > > > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
> > > > by me.
> > >
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

---------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipv5.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon,  1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 11cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEFF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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  jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
  jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
  jar/org/springframework/aop/support/ClassFilter.java
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  jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
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  jar/org/aopalliance/intercept/Interceptor.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
  jar/org/springframework/aop/support/ComposablePointcut.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
  jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
  jar/org/springframework/aop/support/ControlFlowPointcut.java
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  jar/org/springframework/aop/support/ComposablePointcut.java
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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
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  jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
  jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
  jar/org/springframework/aop/support/Pointcuts.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
  jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
  jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-
  jar/org/springframework/aop/ProxyMethodInvocation.java
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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-jar/org/springframework/aop/ThrowsAdvice.java
* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-jar/org/springframework/aop/framework/ProxyFactoryBean.java
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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-jar/org/springframework/aop/config/AopNamespaceHandler.java

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* /opt/cola/permits/1141637386_1615091484.24/0/spring-aop-5-1-17-release-sources-jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java

1.1226 iperf 2.0.13

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one
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   a) Accompany the work with the complete corresponding
      machine-readable source code for the Library including whatever
      changes were used in the work (which must be distributed under
      Sections 1 and 2 above); and, if the work is an executable linked
      with the Library, with the complete machine-readable "work that
      uses the Library", as object code and/or source code, so that the
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      that the user who changes the contents of definitions files in the
      Library will not necessarily be able to recompile the application
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   b) Use a suitable shared library mechanism for linking with the
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1.1237 lang-mustache-client 6.8.0

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1.1238 lucene-queryparser 6.6.1

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* /opt/cola/permits/1143943814_1615812226.39/0/xnio-api-3-7-7-final-sources-1-jar/org/xnio/channels/ProtectedWrappedChannel.java
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jar/org/xnio/CompressionType.java
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/**
* A QOP value specifying authentication plus integrity and confidentiality protection.
*/

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifdef(HAVE_POLL) && !defined(HAVE_POLL_H)
#elif defined_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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int setresuid(uid_t, uid_t, uid_t);
#endif
/
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int *)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) (_W_INT(w)) & 0100
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */

#endif _BSD_WAITPID_H
#define _BSD_WAITPID_H

#endif HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int *)&(w)) /* convert union wait to int */
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#define WIFSTOPPED(w) (_W_INT(w)) & 0100
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

1.1241 jboss-logging 3.4.1.Final
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1.1242 jackson-module-parameter-names
2.9.10

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1.1246 jbossws-cxf-jaspi 5.4.1.Final

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1.1247 jetty-client 9.4.35.v20201120

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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jar/org/hibernate/validator/group/package-info.java
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jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/escapedState.java
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jar/org/hibernate/validator/constraints/br/TituloEleitoral.java
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* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/constraintvalidators/bv/size/sizevalidatortoarray.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorMinguoDat
e.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/AbstractEpochBasedTimeValidator.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForJapaneseDate.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForBigDecimal.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/engine/MethodValidationConfiguration.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/metadata/aggregated/NonContainerCascadingMetaData.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/metadata/location/GetterConstraintLocation.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/metadata/descriptor/ConstraintDescriptorImpl.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/cfg/defs/mod10checkdef.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/util/logging/formatter/TypeFormatter.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/util/annotation/AnnotationProxy.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/constraints/br/CPF.java
* /opt/ cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForOffsetTime.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/DurationMaxValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/valueextraction/ValueExtractorManager.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/HibernateValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/AbstractJavaTimeValidator.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForNumber.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/constraintvalidation/HibernateConstraintValidatorInitializationContextImpl.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveOrZeroValidatorForByte.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfPrimitives.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/constraints/URL.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/valueextraction/ByteArrayValueExtractor.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadata/core/ConstraintOrigin.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadata/descriptor/package-info.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/cfg/defs/pl/NIPDef.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-configuration-1.0.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-2.0.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-configuration-1.1.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-configuration-2.0.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-1.1.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-1.0.xsd

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A method-level constraint, that evaluates a script expression against the annotated method or constructor. This constraint can be used to implement validation routines that depend on several parameters of the annotated executable.

Script expressions can be written in any scripting or expression language, for which a JSR 223 compatible engine can be found on the classpath. To refer to a parameter within the scripting expression, use its name as obtained by the active `javax.validation.ParameterNameProvider`. By default, `arg0`, `arg1` etc. will be used as parameter names.

The following listing shows an example using the JavaScript engine which comes with the JDK:

```java
@ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
public void createEvent(Date start, Date end) { ... }
```

Can be specified on any method or constructor.

@author Gunnar Morling

Found in path(s):
/opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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/** Retrieves constraint related meta data for the parameters of the given executable. */
@param executable The executable of interest.

@return A list with parameter meta data for the given executable.

*/

Found in path(s):
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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Found in path(s):
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/util/TypeHelper.java
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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception. 
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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  */opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/dynamic/scaffold/MethodRegistry.java
  */opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/description/modifier/ParameterManifestation.java
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jar/net/bytebuddy/jar/asm/TypeReference.java
* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-jar/net/bytebuddy/jar/asm/signature/SignatureReader.java
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* /opt/ws_local/PERMITS_SQL/1013453404_1591357223.5/0/byte-buddy-1-9-11-sources-
  jar/net/bytebuddy/jar/asm/signature/package.html

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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signature of Ty Coon, 1 April 1990
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That's all there is to it!

1.1275 zookeeper-jute 3.6.2
1.1275.1 Available under license:
No license file was found, but licenses were detected in source scan.
options {

import org.apache.jute.compiler.generated;
import java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.FileNotFoundException;
import java.io.IOException;

@SuppressWarnings("unused")
public class Rcc {
    private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
    private static String curDir = System.getProperty("user.dir");
    private static String curFileName;
    private static String curModuleName;

    public static void main(String args[]) {
        String language = "java";
        ArrayList<String> recFiles = new ArrayList<String>();
        JFile curFile=null;

        for (int i=0; i<args.length; i++) {
            if ("-l".equalsIgnoreCase(args[i]) ||
                "--language".equalsIgnoreCase(args[i])) {
                language = args[i+1].toLowerCase();
            }
        }
    }
}
i++;
} else {
    recFiles.add(args[i]);
}
}

if (!"c++".equals(language) && !"java".equals(language) && !"c".equals(language)) {
    System.out.println("Cannot recognize language:" + language);
    System.exit(1);
}

if (recFiles.size() == 0) {
    System.out.println("No record files specified. Exiting.");
    System.exit(1);
}

for (int i=0; i<recFiles.size(); i++) {
    curFile = new File(curFileName);
    try {
        curFile = parseFile(file);
    } catch (FileNotFoundException e) {
        System.out.println("File " + recFiles.get(i) + " Not found.");
        System.exit(1);
    } catch (ParseException e) {
        System.out.println(e.toString());
        System.exit(1);
    }
    System.out.println(recFiles.get(i) + " Parsed Successfully");
    try {
        curFile.genCode(language, new File(".");
    } catch (IOException e) {
        System.out.println(e.toString());
        System.exit(1);
    }
}

public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
    FileReader reader = new FileReader(file);
    try {
        Rcc parser = new Rcc(reader);
        recTab = new Hashtable<String, JRecord>
        return parser.Input();
    } finally {
        try {
            reader.close();
        } catch (IOException e) {
            
        }
    }
}

public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
    FileReader reader = new FileReader(file);
    try {
        Rcc parser = new Rcc(reader);
        recTab = new Hashtable<String, JRecord>
        return parser.Input();
    } finally {
        try {
            reader.close();
        } catch (IOException e) {
            
        }
    }
}
PARSER_END(Rcc)

SKIP :
{
  "" |
  "\n"
  "\n"
  "\r"
}

SPECIAL_TOKEN :
{
  "//" : WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN :
{
  <("\n" | "\r" | "\r\n")> : DEFAULT
}

<WithinOneLineComment> MORE :
{
  (~(\])
}

SPECIAL_TOKEN :
{
  "/\*" : WithinMultiLineComment
}

<WithinMultiLineComment> SPECIAL_TOKEN :
{
  "/\*" : DEFAULT
}

<WithinMultiLineComment> MORE :
{
  ~(\])
}

TOKEN :
{
  <MODULE_TKN: "module">
  | <RECORD_TKN: "class">
  |
JFile Input() :
{
    ArrayList<JFile> ilist = new ArrayList<JFile>();
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JFile i;
    ArrayList <JRecord>l;
    
    (i = Include())
    { ilist.add(i); }
    | l = Module()
    { rlist.addAll(l); }
}+
<EOF>
{ return new JFile(curFileName, ilist, rlist); }

JFile Include() :
{
    String fname;
    Token t;
    
    <INCLUDE_TKN>
    t = <CSTRING_TKN>
JFile ret = null;
fname = t.image.replaceAll("\^"", "").replaceAll("\$"", "");
File file = new File(curDir, fname);
String tmpDir = curDir;
String tmpFile = curFileName;
curDir = file.getParent();
curFileName = file.getName();
try {
    FileReader reader = new FileReader(file);
    Rcc parser = new Rcc(reader);
    try {
        ret = parser.Input();
        System.out.println(fname + " Parsed Successfully");
    } catch (ParseException e) {
        System.out.println(e.toString());
        System.exit(1);
    }
    try {
        reader.close();
    } catch (IOException e) {
    }
} catch (FileNotFoundException e) {
    System.out.println("File " + fname + 
        " Not found.");
    System.exit(1);
}
curDir = tmpDir;
curFileName = tmpFile;
return ret;
}

ArrayList<JRecord> Module() :
{
    String mName;
    ArrayList<JRecord> rlist;
}
{
    <MODULE_TKN>
    mName = ModuleName()
    { curModuleName = mName; }
    <LBRACE_TKN>
    rlist = RecordList()
    <RBRACE_TKN>
    { return rlist; }
}
String ModuleName() : 
{
    String name = "";
    Token t;
}
{
    t = <IDENT_TKN>
    { name += t.image; }
    (<DOT_TKN>
        t = <IDENT_TKN>
        { name += "." + t.image; }
    )* 
    { return name; }
}

ArrayList<JRecord> RecordList() : 
{
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JRecord r;
}
{
    ( 
        r = Record() 
        { rlist.add(r); }
    )+
    { return rlist; }
}

JRecord Record() : 
{
    String rname;
    ArrayList<JField> flist = new ArrayList<JField>();
    Token t;
    JField f;
}
{
    <RECORD_TKN>
    t = <IDENT_TKN>
    { rname = t.image; }
    <LBRACE_TKN>
    ( 
        f = Field() 
        { flist.add(f); } 
        <SEMICOLON_TKN>
    )+
    <RBRACE_TKN>
}
String fqn = curModuleName + "." + rname;
JRecord r = new JRecord(fqn, flist);
recTab.put(fqn, r);
return r;
}
}

JField Field() :
{
    JType jt;
    Token t;
}
{
    jt = Type()
    t = <IDENT_TKN>
    { return new JField(jt, t.image); }
}

JType Type() :
{
    JType jt;
    Token t;
    String rname;
}
{
    jt = Map()
    { return jt; }
    jt = Vector()
    { return jt; }
    <BYTE_TKN>
    { return new JByte(); }
    <BOOLEAN_TKN>
    { return new JBoolean(); }
    <INT_TKN>
    { return new JInt(); }
    <LONG_TKN>
    { return new JLong(); }
    <FLOAT_TKN>
    { return new JFloat(); }
    <DOUBLE_TKN>
    { return new JDouble(); }
    <USTRING_TKN>
    { return new JString(); }
    <BUFFER_TKN>
    { return new JBuffer(); }
    rname = ModuleName()
    {
        if (rname.indexOf(‘.’, 0) < 0) {  

rname = curModuleName + "." + rname;
}
JRecord r = recTab.get(rname);
if (r == null) {
    System.out.println("Type " + rname + " not known. Exiting.");
    System.exit(1);
}
return r;

JMap Map() :
{
    JType jt1;
    JType jt2;
}
{
    <MAP_TKN>
    <LT_TKN>
    jt1 = Type()
    <COMMA_TKN>
    jt2 = Type()
    <GT_TKN>
    { return new JMap(jt1, jt2); }
}

JVector Vector() :
{
    JType jt;
}
{
    <VECTOR_TKN>
    <LT_TKN>
    jt = Type()
    <GT_TKN>
    { return new JVector(jt); }
}

Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3.6.2-sources-1-jar/org/apache/jute/compiler/generated/rcc.jj
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*/

Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/RccConstants.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/Rcc.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/TokenMgrError.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/TokenManager.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/Token.java

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jar/io/netty/internal/tcnative/CertificateCallbackTask.java
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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution=optional,org.eclipse.jetty.npn;version=\"[1,2)\",resolution=optional,org.eclipse.jetty.alpn;version=\"[1,2)\",resolution=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=mac
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* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-jar/io/netty/internal/tcnative/Buffer.java
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jar/io/netty/internal/tcnative/CertificateRequestedCallback.java

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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@gmail.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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1.1296 libjpeg 6b

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The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpegs, djpegs, jpegtrans, rdjpgcom, and wrjpgcom.
Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.  

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.  

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI
doesn't take credit card orders, but Global does.) It's not cheap: as of
1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7%
shipping/handling. The standard is divided into two parts, Part 1 being the
actual specification, while Part 2 covers compliance testing methods. Part 1
is titled "Digital Compression and Coding of Continuous-tone Still Images,
Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS
10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of
Continuous-tone Still Images, Part 2: Compliance testing" and has document

Some extensions to the original JPEG standard are defined in JPEG Part 3,
a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG
currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

```
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2
```

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.
In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.1297 akka-actor 2.3.15

1.1298 jaxb-runtime 2.3.0

1.1298.1 Available under license:

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1.1300 jackson 2.9.9

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1301 spring-boot-autoconfigure

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* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/template/AbstractViewResolverProperties.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/web/servlet/WebMvcAutoConfiguration.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceAutoConfiguration.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/kafka/KafkaAnnotationDrivenConfiguration.java

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* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
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* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/job/autoconfigure/web/reactive/error/AbstractErrorWebExceptionHandler.java
*/
jar/org/springframework/boot/autoconfigure/AutoConfigurationImportSelector.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/security/servlet/JerseyRequestMatcherProvider.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
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* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/elasticsearch/rest/RestClientBuilderCustomizer.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/quartz/JobStoreType.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
onfiguration.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/security/oauth2/client/servlet/OAuth2ClientRegistrationRepositoryCon
figuration.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
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* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/data/redis/LettuceConnectionConfiguration.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
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* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/session/JdbcSessionProperties.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/kafka/KafkaProperties.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/mustache/MustacheReactiveWebConfiguration.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/flyway/package-info.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/elasticsearch/rest/package-info.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/AutoConfigurationImportListener.java
* /opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2-1-16-release-sources-
jar/org/springframework/boot/autoconfigure/web/servlet/DispatcherServletPathProvider.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
jar/org/springframework/boot/autoconfigure/elasticsearch/rest/RestClientProperties.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
jar/org/springframework/boot/autoconfigure/h2/H2ConsoleProperties.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
jar/org/springframework/boot/autoconfigure/webservices/WebServicesAutoConfiguration.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
jar/org/springframework/boot/autoconfigure/security/package-info.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
jar/org/springframework/boot/autoconfigure/data/package-info.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
jar/org/springframework/boot/autoconfigure/context/package-info.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
jar/org/springframework/boot/autoconfigure/orm/package-info.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
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*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
jar/org/springframework/boot/autoconfigure/web/servlet/DispatcherServletRegistrationBean.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
jar/org/springframework/boot/autoconfigure/flyway/FlywayMigrationStrategy.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerTemplateAvailabilityProvider.java
*/opt/cola/permits/1141636796_1615091568.76/0/spring-boot-autoconfigure-2.1.16-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelId.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/ChannelGroupException.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelProgressivePromise.java
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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:
 */

//jar/io/netty/channel/ChannelProgressiveFuture.java
// /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/AddressedEnvelope.java
// /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/AbstractEventLoopGroup.java
// /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/nio/SelectedSelectionKeySet.java
// /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/group/ChannelMatchers.java
// /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/DefaultChannelProgressivePromise.java
// /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/ChannelFactory.java
// /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1.jar/io/netty/channel/group/ChannelMatcher.java
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* <ul>
  * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
  * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
  * </ul>

* Alternatively, the following adapter classes are provided for your convenience:
  * <ul>
  * <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
  * <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
  * <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
  * </ul>

* For more information, please refer to the documentation of each subtype.

* <h3>The context object</h3>

* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
  * [{@link ChannelPipeline}] it belongs to via a context object. Using the
  * context object, the [{@link ChannelHandler}] can pass events upstream or
  * downstream, modify the pipeline dynamically, or store the information
  * (using [{@link AttributeKey}]s) which is specific to the handler.

* <h3>State management</h3>

* A [{@link ChannelHandler}] often needs to store some stateful information.
  * The simplest and recommended approach is to use member variables:
  * <pre>
  * public interface Message {
  *     // your methods here
  * }
  *
  *
  * public class DataServerHandler extends [{@link SimpleChannelInboundHandler}]<Message> {
  *
  *     private boolean loggedIn;
  *
  *     {@code @Override}
  *     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
  *         if (message instanceof LoginMessage) {
  *             authenticate((LoginMessage) message);
  *             <b>loggedIn = true;</b>
  *         } else (message instanceof GetDataMessage) {
  *             if (<b>loggedIn</b>) {
  *                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
  *             } else {
  *                 <b>ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
  *             }
  *     }
  *
  */
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer} &lt;{@link Channel} &gt; { 
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", &lt;b&gt;new DataServerHandler&lt;/b&gt;);
*     }
* }
* </pre>
* </h4>
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
* </pre>
* public class DataServerHandler extends {@link SimpleChannelInboundHandler} {&lt;Message&gt; { 
*     private final {@link AttributeKey} &lt;{@link Boolean} &gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute} &lt;{@link Boolean} &gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             &lt;b&gt;attr.set(true)&lt;/b&gt;;
*         } else (message instanceof GetDataMessage) {
*             if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             
* }
* } else {
*     fail();
* }
* }
* ...
* }
* </pre>
* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;{ @link Channel}&gt; { 
* 
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
* 
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>

* <h4>The { @code @Sharable} annotation</h4>
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* <p>
* If a { @link ChannelHandler} is annotated with the { @code @Sharable} annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.</p>
* 
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
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jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/bootstrap/Bootstrap.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/MultithreadEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/local/LocalAddress.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/ChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/socket/oio/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/ChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/socket/nio/AbstractNioMessageChannel.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/socket/DatagramPacket.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/DefaultEventLoopGroup.java

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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/Channel.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/EventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/NioEventLoop.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/ChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/oio/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/local/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/LocalServerChannel.java
The image contains a list of file paths related to the Netty framework. These files are part of the Netty-Transport project and are located in the directory `/opt/ws_local/PERMITS_SQL/1072948476_1595240756.51`. The files listed are:

- `VoidChannelPromise.java`
- `AbstractChannel.java`
- `ServerBootstrap.java`
- `FailedChannelFuture.java`
- `EmbeddedEventLoop.java`
- `AbstractServerChannel.java`
- `ChannelOutboundHandler.java`
- `ChannelException.java`
- `NioDatagramChannel.java`
- `DefaultChannelPipeline.java`
- `DefaultDatagramChannelConfig.java`
- `ChannelInboundHandler.java`
- `SocketChannelConfig.java`
- `ChannelOption.java`
- `package-info.java`
- `AbstractChannelHandlerContext.java`
- `CompleteChannelFuture.java`
- `ThreadPerChannelEventLoopGroup.java`
- `ThreadPerChannelEventLoop.java`
- `DefaultDatagramChannelConfig.java`
- `ChannelInboundHandler.java`
- `SocketChannelConfig.java`
- `ChannelOption.java`
- `nio/package-info.java`
- `NioServerSocketChannel.java`
- `ServerChannel.java`
- `ChannelMetadata.java`
- `ServerSocketChannel.java`
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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/bootstrap/FailedChannel.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/socket/oio/ChannelOutputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/internal/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java

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  jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
  jar/io/netty/channel/ChannelHandlerMask.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
  jar/io/netty/channel/ExtendedClosedChannelException.java

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  jar/io/netty/channel/DefaultChannelHandlerContext.java

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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its [link ChannelPipeline].
 *
 * <h3>Sub-types</h3>
 * <p>
 * [link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>[link ChannelInboundHandler] to handle inbound I/O events, and</li>
 * <li>[link ChannelOutboundHandler] to handle outbound I/O operations.</li>
 * </ul>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>[link ChannelInboundHandlerAdapter] to handle inbound I/O events, and</li>
 * <li>[link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
 * <li>[link ChannelDuplexHandler] to handle both inbound and outbound events</li>
 * </ul>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * <p>
 * <h3>The context object</h3>
 * <p>
 * A [link ChannelHandler] is provided with a [link ChannelHandlerContext]
 * object. A [link ChannelHandler] is supposed to interact with the
 * [link ChannelPipeline] it belongs to via a context object. Using the
 * context object, the [link ChannelHandler] can pass events upstream or
 * downstream, modify the pipeline dynamically, or store the information
 * (using [link AttributeKey]s) which is specific to the handler.
State management

A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where an unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See [ChannelInitializer#initChannel](https://github.com/..).
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Using `AttributeKey`s
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [@link AttributeKey]s which is provided by
* [@link ChannelHandlerContext]:
* <pre>
* public interface Message {
*   // your methods here
* }
* 
* [@code @Sharable]
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]&lt;Message&gt; {
*   private final [@link AttributeKey]&lt;@link Boolean&gt; auth =
*       [@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")];
*   
*   [@code @Override]
*   public void channelRead([@link ChannelHandlerContext] ctx, Message message) {
*       Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*       if (message instanceof LoginMessage) {
*           authenticate((LoginMessage) o);
*           attr.set(true);
*       } else (message instanceof GetDataMessage) {
*           if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*               ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*           } else {
*               fail();
*           }
*       } else {
*           // your methods here
*       }
*   }
* </pre>
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends [@link ChannelInitializer]&lt;@link Channel&gt; {
*   private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*   
*   [@code @Override]
*   public void initChannel([@link Channel] channel) {
*       channel.pipeline().addLast("handler", <b>SHARED</b>);
*   }
* </pre>
* <h4>The [@code @Sharable] annotation</h4>
* <p>
* In the example above which used an [@link AttributeKey],
* you might have noticed the [@code @Sharable] annotation.
* <p>
* If a [@link ChannelHandler] is annotated with the [@code @Sharable]
* annotation, it means you can create an instance of the handler just once and
* add it to one or more [@link ChannelPipeline]s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* </h3>
* Additional resources worth reading</h3>
* <p>
* Please refer to the [@link ChannelHandler], and
* [@link ChannelPipeline] to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
* /

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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/ChannelHandler.java

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jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-
jar/io/netty/channel/group/DefaultChannelGroup.java
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jar/io/netty/channel/PreferHeapByteBufAllocator.java
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jar/io/netty/channel/socket/DuplexChannel.java
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jar/io/netty/channel/socket/DuplexChannel.java
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1.1310 maven-shade-plugin 3.1.0

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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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1.1315 util-linux 2.32.1
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1.1317 spring-web 5.1.17.RELEASE

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 */

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* /opt/cola/permits/1141636877_1615091548.73/0/spring-web-5-1-17-release-sources-jar/org/springframework/web/cors/CorsUtils.java
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This file maps Internet media types to unique file extension(s).
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The table below contains both registered and (common) unregistered types.
A type that has no unique extension can be ignored -- they are listed
here to guide configurations toward known types and to make it easier to
identify "new" types. File extensions are also commonly used to indicate
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Internet media types should be registered as described in RFC 4288.
The registry is at <https://www.iana.org/assignments/media-types/>.

This file was retrieved from

MIME type (lowercased)Extensions
===================================
application/1d-interleaved-parityfec
application/3gpdash-qoe-report+xml
application/3gpp-ims+xml
application/a2l
application/activemessage
application/alto-costmap+json
application/alto-costmapfilter+json
application/alto-directory+json
application/arlo-endpointcost+json
application/arlo-endpointcostparams+json
application/arlo-endpointprop+json
application/arlo-endpointpropparams+json
application/arlo-error+json
application/arlo-networkmap+json
application/arlo-networkmapfilter+json
application/aml
application/andrew-insetez
application/applefile
application/applixwareaw
application/atf
application/atfx
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml inkml
# application/iotp
application/ipfix ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive jar
application/java-serialized-object ser
application/java-vm class
application/javascript js
# application/jose
# application/jose+json
# application/jrd+json
application/json json
# application/json-patch+json
# application/json-seq
application/jsonml+json jsonml
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
# application/lgr+xml
# application/link-format
# application/load-control+xml
application/lost+xml lostxml
# application/lostsync+xml
# application/lxf
application/mac-binhex40 hqx
application/mac-compactpro cpt
# application/macwriteii
application/mads+xml mads
application/marc marc
application/marcxml+xml marcxmrc
application/mathematica nb mb
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# application/mathml-presentation+xml
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# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
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# application/vnd.cab-jscript
# application/vnd.canon-cpdl
# application/vnd.canon-lips
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# application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml
cdxml
# application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd
mmd
application/vnd.cinderella
cdy
# application/vnd.cirpack.isdn-ext
# application/vnd.citationstyles.style+xml
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application/vnd.cloanto.rp9rp9
application/vnd.clonk.c4group c4d c4f c4p c4u
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c11amc
application/vnd.cluetrust.cartomobile-config-pkg
c11amz
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# application/vnd.collection+json
# application/vnd.collection.doc+json
# application/vnd.collection.next+json
# application/vnd.comicbook+zip
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cdbcmsg
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* Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
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* specify one or because the underlying session had expired. Use of this
* method does not automatically create a session. See { @link WebSession}
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Ville Skytt
Vincent Maillol
Vitalik Verhovodov
Vitaly Haritonsky
Vitaly Magerya
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1.1321 protobuf v1.25.0

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Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccooleyman@redhat.com>
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DongYun Kang <ceram1000@gmail.com>
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John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
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Peter Edge <peter.edge@gmail.com>
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Tormod Erevik Lea <tormodulea@gmail.com>
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**1.1322 python-django 1.11.11 1.el7ost**

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**A. HISTORY OF THE SOFTWARE**

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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===========================
Advice for new contributors
===========================

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

First steps
==========

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

   The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.
* **Triage tickets**

If an `unreviewed ticket` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

   The `reports page` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

   .. _reports page: https://code.djangoproject.com/wiki/Reports

   .. _CLA: https://www.djangoproject.com/foundation/clas
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Guidelines

==========
As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

* **Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`.

* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

* **Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

* **Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

* **Wait for feedback, and respond to feedback that you receive**
Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

**Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

   First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |django-developers| mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

   Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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1.1323 cryptography 3.4.7

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1.1324 zlib 1.2.7

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.1325 libgpg-error 1.27 6

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1.1327 django-crontab 0.7.1
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1.1328 python-lxml 3.4.4
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1.1333 jackson 2.10.5

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain.jetty-schemas

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Assorted

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1.1335 pycryptodome 3.0

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4. Removing some modules altogether without replacing them.

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Support for streaming Protocol Buffer messages for the Go language (golang).
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Protocol Buffers for Go with Gadgets

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
define_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    shortrevents;
} pollfd_t;
typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
    /* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t gid_t, gid_t gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t uid_t, uid_t uid_t);
#endif
/*
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);  

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/TypeVisitor.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/FilteredKeySetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/EvictingQueue.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/reflect/AbstractBlockingDeque.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/RegularImmutableAsList.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/StandardSystemProperty.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ForwardingImmutableSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ArrayTable.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ImmutableEnumSet.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

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  jar/com/google/common/hash/Funnel.java
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  jar/com/google/common/hash/AbstractStreamingHashFunction.java
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  jar/com/google/common/hash/AbstractHasher.java
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  jar/com/google/common/hash/Hashing.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
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  jar/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
  jar/com/google/common/hash/PrimitiveSink.java
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  jar/com/google/common/hash/BloomFilter.java
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  jar/com/google/common/collect/RegularContiguousSet.java
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  jar/com/google/common/collect/AbstractSortedMultiset.java
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  jar/com/google/common/hash/Murmur3_128HashFunction.java
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jar/com/google/common/collection/DenseImmutableTable.java
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jar/com/google/common/collection/MapMaker.java
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jar/com/google/common/collection/Cut.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/collection/SparseImmutableTable.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/CartesianList.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ImmutableRangeSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/ImmutableRangeMap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collection/FilteredKeyMultimap.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/hash/ChecksumHashFunction.java
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* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3-jar/dk/brics/automaton/ShuffleOperations.java
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* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3.jar/dk/brics/automaton/SpecialOperations.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3.jar/dk/brics/automaton/BasicAutomata.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3.jar/dk/brics/automaton/DatatypesAutomatonProvider.java
* /opt/cola/permits/1135840548_1613612864.41/0/automaton-1-11-8-sources-3.jar/dk/brics/automaton/Automaton.java

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1.1361 resolvconf 1.78ubuntu7

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jar/javassist/bytecode/annotation/MemberValue.java
*/opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/bytecode/annotation/FloatMemberValue.java
*/opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/bytecode/annotation/LongMemberValue.java
*/opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/bytecode/annotation/IntegerMemberValue.java

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 */

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 * A predicate implementation that indicates whether the message channel does
 * NOT support confidentiality end-to-end.
 *
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 */

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* /opt/cola/permits/1111302142_1606896640.05/0/opensaml-profile-api-3-3-1-sources-1-
 jar/org/opensaml/profile/logic/NoConfidentialityMessageChannelPredicate.java

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1.1366 apache-curator-client 2.11.1

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Julian Seward, jseward@bzip.org
libbzip2 version 1.0.6 of 6 September 2010

--
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author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
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#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = " ";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg';

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output';

  $year;
}

1.1368 libunistring 0.9.9
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* <p>
* Typically used to ensure the principal is permitted to access the domain object
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* instance so the principal is only able to access authorised bean properties or
* <code>Collection</code> elements.
* <p>
* Special consideration should be given to using an <code>AfterInvocationManager</code>
* on bean methods that modify a database. Typically an
* <code>AfterInvocationManager</code> is used with read-only methods, such as
* `<code>public DomainObject getById(id)</code>`. If used with methods that modify a database, a transaction manager should be used to ensure any `<code>AccessDeniedException</code>` will cause a rollback of the changes made by the transaction.

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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java
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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-jar/org/springframework/security/crypto/password/Md4.java

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 */
/**
* A token issued by {@link TokenService}.

*<p>*

* It is important that the keys assigned to tokens are sufficiently randomised and
* secured that they can serve as identifying a unique user session. Implementations of
* {@link TokenService} are free to use encryption or encoding strategies of their choice.
* It is strongly recommended that keys are of sufficient length to balance safety against
* persistence cost. In relation to persistence cost, it is strongly recommended that
* returned keys are small enough for encoding in a cookie.
* </p>*

* @author Ben Alex
* @since 2.0.1
*/

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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
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* /
*/
/**
* @param authentication represents the user in question. Should not be null.
* @param targetDomainObject the domain object for which permissions should be
* checked. May be null in which case implementations should return false, as the null
* condition can be checked explicitly in the expression.
* @param permission a representation of the permission object as supplied by the
* expression system. Not null.
* @return true if the permission is granted, false otherwise
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 */

/**
 * Determines if the [@link #getAuthentication()]{@link #getAuthentication()} has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission is granted to the [@link #getAuthentication()]{@link #getAuthentication()}, else
 * false
 */

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* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
  jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java
* /opt/ws_local/PERMITS_SQL/1070948459_1594800363.34/0/spring-security-core-5-1-11-release-sources-
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bzip2/libbzip2 version 1.0.8 of 13 July 2019
1.1373 opensaml-xmlsec-impl 3.3.0

1.1374 spring-boot-starter-data-rest

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Eclipse Collections API
Eclipse Distribution License - v 1.0
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1.1377 audit 2.4.5 1ubuntu2.1
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1.1400 compiler 0.9.3

1.1401 trio-asyncio 0.12.0

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Upstream-Contact: Nathaniel J. Smith <njs@pobox.com>
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1.1402 python-pysocks 1.6.8 5.el7

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# OVS: openvswitch installed directory (used to look for libraries)
# OVS_SRC: openvswitch source directory

OVS?=${HOME}/ovs
OVS_SRC?=~/disks/774373a2-e180-11e3-9fa1-08606e7f74e7/git/openvswitch

CPPFLAGS+=-I$(OVS)/include -I$(OVS_SRC)
LDFLAGS+=-L$(OVS)/lib -Wl,-R$(OVS)/lib -lofproto -lopenvswitch

PROG=gen
NOMAN=

all: generate

generate: ${PROG}
${[MKMSG]} "generate packet_data"
cd ${.CURDIR} && ${.OBJDIR}/${PROG}/${PROG}

.include <bsd.prog.mk>

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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
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Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
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Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <spfr@google.com>
Peter Kaminski <piotr@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean Mcafee <seefacm@gmail.com>
Sigurur sgeirsson <siggi@gmail.com>
Tracy Bialik <tracy@pentad.com>
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<td>Main Mesa code</td>
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<tr>
<td>Device drivers</td>
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<td>Gallium code</td>
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Ext headers          GL/glext.h       Khronos
GL/glxext.h          Khronos
GL/wglext.h          Khronos
KHR/khrplatform.h    Khronos

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include/GL/gl.h :

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include/GL/glext.h
include/GL/glxext.h
include/GL/wglext.h :

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1.1419 hostap-utils 0.4.7
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*/

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version
trivial database library - private includes

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Theodore Ts'o
23-June-2007

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
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therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss 
command-line interface parsing library. It is currently 
distributed together with the EXT2 file system utilities, which are 
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, 
from sources obtained from a mirror of: 
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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# 
# This is a Makefile stub which handles the creation of BSD shared 
# libraries.
# 
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce 
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image
real-subdirs:: Makefile
@echo "MKDIR pic"
@makedir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ..$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
 `echo $(my_dir) | sed -e s;lib/;"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
 $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde= r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> >=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
> the original license (before moving to sourceforge -- aka, 2.7) was not
> GPL-2 ... it was a modified artistic license ... i didnt notice the license=
> change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
applications are also GPL-2 which imo is just wrong. it isnt the place of a
library to dictact to application writes what license they should be using.=
thus LGPL-2.1 enters to fill this void.

=Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=D Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> > it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> =20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isn't the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > > > additional code, so whatever licensing y'all come up with is fine
> > > > by me.
> > > I am sympathetic. Guys, what do you reckon?
> > >
> > > What I am hearing so far is that LGPL makes sense, since it can be
> > > linked with any code, not just GPL....
> >
> My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> >> >> Seems like the ideal thing here would be for you and the other distro
> >> >> maintainers to get together with Alec in a conversation and come to a
> >> >> decision as to what licensing scheme y'all want. I haven't really done
> >> >> much other than cleaning up the packaging and patches and a small
> >> >> bit of
> >> >> > additional code, so whatever licensing y'all come up with is fine
> >> >> by me.
> >>>
> > >> I am sympathetic. Guys, what do you reckon?
> > >>
> > >> What I am hearing so far is that LGPL makes sense, since it can be
> > >> linked with any code, not just GPL....
> > >
> > >> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> 
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

--------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
--------
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 16:59:55 -0000
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3f6d80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3f6d80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self-contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.1427 moment-timezone 0.5.13

1.1427.1 Available under license:

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1.1428 hornetq-client 2.4.7.Final
1.1428.1 Available under license:

No license file was found, but licenses were detected in source scan.

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 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1069029559_1596255748.98/0/hornetq-jms-client-2-4-7-final-sources-1-
jar/org/hornetq/jms/client/SelectorTranslator.java
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jar/org/hornetq/jms/client/HornetQJMSProducer.java
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jar/org/hornetq/jms/client/HornetQConnectionForContextImpl.java
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jar/org/hornetq/jms/client/JMSMessageListenerWrapper.java
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1.1429 scala-library 2.10.6
1.1429.1 Available under license:
   BSD-like
   http://www.scala-lang.org/downloads/license.html

1.1430 isc-dhcp 4.3.0
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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb56.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
1.1431 i2c-tools 4

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Version 2.1, February 1999

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Comment:
This package was debianized by Brendan O'Dea <bod@debian.org> on Thu, 17 Aug 2000 16:10:54 +1000.
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cpan/podlators/t/docs/pod.t
cpan/podlators/t/docs/synopsis.t
cpan/podlators/t/lib/Test/RRA.pm
cpan/podlators/t/lib/Test/RRA/Config.pm
cpan/podlators/t/style/minimum-version.t
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cpan/bignum/*
cpan/Tie-RefHash/*
cpan/Win32API-File/*
dist/ExtUtils-Install/*
dist/Math-BigInt/*
dist/Math-BigInt-FastCalc/*
dist/Math-BigRat/*
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dist/base/*
dist/constant/*
dist/Devel-SelfStubber/*
dist/Dumpvalue/*
dist/Env/*
dist/ExtUtils-Command/*
dist/ExtUtils-Manifest/*
dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opencode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
ext/POSIX/*
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1.1453 apr-util 1.5.4

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   *   interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   *   and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   *   loss of link, and correctly re-enable PHY when link is
   *   re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstart() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb’s passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*      combined, allow nicstar_free_rx_skb to be called to
*      recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
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*
* M. Welsh, 6 July 1996
*
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1.1456 jackson-annotations 2.10.5

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

-----
Assorted

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1.1462 wildfly-elytron-mechanism-gssapi
1.11.4.Final
1.1462.1 Available under license:

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* /opt/ws_local/PERMITS_SQL/1094805355_1601321234.5/0/wildfly-elytron-mechanism-gssapi-1-11-4-final-sources-jar/org/wildfly/security/mechanism/gssapi/ElytronMessages.java
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* /opt/ws_local/PERMITS_SQL/1094805355_1601321234.5/0/wildfly-elytron-mechanism-gssapi-1-11-4-final-sources-jar/org/wildfly/security/mechanism/gssapi/GSSCredentialSecurityFactory.java

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* Project home: https://projects.eclipse.org/projects/ee4j.jaf

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* https://github.com/eclipse-ee4j/jaf

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JUnit (4.12)

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### 1.1464 native-lib-loader 2.0.2

#### 1.1464.1 Available under license:

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/*

Native library loader for extracting and loading native libraries from Java.

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1.1465 jsch 0.1.54

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1.1466 netty-buffer 4.1.13

1.1467 cxf-rt-frontend-jaxws 3.3.6
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1.1468 libpg-error 1.12
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision
Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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No license file was found, but licenses were detected in source scan.

/"""--

$Id: JDOMParseException.java,v 1.7 2004/02/17 02:29:24 jhunter Exp $

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*/opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/input/JDOMParseException.java
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/*--

$Id: AttributeList.java,v 1.23 2004/02/28 03:30:27 jhunter Exp$

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/AttributeList.java
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Found in path(s):
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$Id: TextBuffer.java,v 1.8 2004/02/06 09:28:31 jhunter Exp $

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$Id: DOMOutputter.java,v 1.41 2004/09/03 06:03:42 jhunter Exp $

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/output/DOMOutputter.java

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$Id: BuilderErrorHandler.java,v 1.12 2004/02/06 09:28:31 jhunter Exp $

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$Id: ElementFilter.java,v 1.18 2004/09/07 06:37:20 jhunter Exp $

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$Id: FilterIterator.java,v 1.5 2004/08/31 19:36:12 jhunter Exp$
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$Id: Attribute.java,v 1.52 2004/03/01 23:58:28 jhunter Exp $

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*/

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/transform/XSLTransformException.java
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/*--

Std: JDOMException.java,v 1.23 2004/02/27 11:32:57 jhunter Exp $

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/JDOMException.java
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$Id: IllegalAddException.java,v 1.25 2004/02/06 09:28:30 jhunter Exp $

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/IllegalAddException.java
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$Id: JDOMSource.java,v 1.18 2004/08/31 04:43:48 jhunter Exp $

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/transform/JDOMSource.java
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$Id: SAXHandler.java,v 1.68 2004/08/31 06:14:05 jhunter Exp $

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/input/SAXHandler.java
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$Id: JDOMResult.java,v 1.23 2004/08/31 06:10:38 jhunter Exp $

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$Id: JAXPParserFactory.java,v 1.5 2004/02/27 21:08:47 jhunter Exp $

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  */opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/input/JAXPParserFactory.java

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$Id: ContentList.java,v 1.39 2004/02/28 03:30:27 jhunter Exp $

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$Id: Text.java,v 1.24 2004/02/27 11:32:57 jhunter Exp $

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$Id: DOMBuilder.java,v 1.59 2004/09/03 06:03:41 jhunter Exp $

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$Id: ContentFilter.java,v 1.14 2004/08/31 04:56:07 jhunter Exp $

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$Id: EscapeStrategy.java,v 1.3 2004/02/06 09:28:32 jhunter Exp$

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/"*/

$Id: OracleV1DOMAdapter.java,v 1.19 2004/02/06 09:28:31 jhunter Exp $

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$Id: DefaultJDOMFactory.java,v 1.6 2004/09/01 05:25:38 jhunter Exp $

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$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp $

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$Id: ProcessingInstruction.java,v 1.46 2004/02/27 11:32:57 jhunter Exp $

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$Id: AndFilter.java,v 1.3 2004/02/06 09:28:31 jhunter Exp$

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$Id: XSLTransformer.java,v 1.2 2004/02/06 09:28:32 jhunter Exp $

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/*--

$Id: DescendantIterator.java,v 1.5 2004/02/27 11:32:57 jhunter Exp $

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$Id: AbstractFilter.java,v 1.5 2004/02/27 11:32:58 jhunter Exp $

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/*

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File: SAXOutputter.java,v 1.37 2004/09/03 06:11:00 jhunter Exp $

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$Id: AbstractDOMAdapter.java,v 1.20 2004/02/06 09:28:31 jhunter Exp $

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$Id: DocType.java,v 1.31 2004/02/27 11:32:57 jhunter Exp $

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* /opt/cola/permits/1143944167_1615812140.67/0/jdom-1-0-sources-2-jar/org/jdom/DocType.java
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$Id: Format.java,v 1.10 2004/09/07 06:37:20 jhunter Exp $

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$Id: JAXPDOMAdapter.java,v 1.12 2004/02/06 09:28:31 jhunter Exp $

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$Id: Namespace.java,v 1.41 2004/02/27 11:32:57 jhunter Exp $

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$Id: SAXBuilder.java,v 1.89 2004/09/03 18:24:28 jhunter Exp $

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  jar/org/eclipse/jgit/merge/MergeAlgorithm.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_160683642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/attributes/FilterCommandFactory.java
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*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/events/RefsChangedListener.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/storage/pack/ObjectToPack.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/storage/pack/PackConfig.java
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*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/errors/CanceledException.java
*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/errors/InvalidConfigurationException.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/transport/PushCertificate.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/transport/ProgressSpinner.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/transport/InternalPushConnection.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/transport/NonceGenerator.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/file/LazyObjectIdSetFile.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/annotations/Nullable.java

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/**
 * A special exception thrown when [link AutoLFInputStream] is told to
* throw an exception when attempting to read a binary file. The exception
* may be thrown at any stage during reading.
*
* @since 3.3
*/

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/util/TemporaryBuffer.java
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  jar/org/eclipse/jgit/dircache/DirCacheEditor.java
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/**
 * {@inheritdoc}
 * <p>
 * Free resources associated with this instance.
 * <p>
 * If the repository was opened by a static factory method in this class,
 * then this method calls {@link Repository#close()} on the underlying
 * repository instance. (Whether this actually releases underlying
 * resources, such as file handles, may vary; see {@link Repository} for
 * more details.)
 * <p>
* If the repository was created by a caller and passed into
* [link #Git(Repository)] or a static factory method in this class, then
* this method does not call close on the underlying repository.
* <p>
* In all cases, after calling this method you should not use this
* [link Git] instance anymore.
* *
* @since 3.2
*/

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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  jar/org/eclipse/jgit/internal/storage/file/PackIndex.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/revwalk/RevSort.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/FooterLine.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/file/ObjectDirectory.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/file/PackLock.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/storage/file/WindowCacheConfig.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/lib/RepositoryCache.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/util/io/NullOutputStream.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/RawSubStringPattern.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/FS_Win32.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/StopWalkException.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/filter/PatternMatchRevFilter.java

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  jar/org/eclipse/jgit/lib/RefWriter.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5.0.2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/IndexReadException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5.0.2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/errors/TooLargePackException.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/notes/NoteMap.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/storage/file/PackInputStream.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/storage/file/LargePackedWholeObject.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/diff/RenameDetector.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/notes/InMemoryNoteBucket.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/errors/NoWorkTreeException.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/diff/LowLevelDiffAlgorithm.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/transport/CredentialItem.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/lib/ObjectStream.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/lib/RefList.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/lib/AsyncObjectLoaderQueue.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/AsyncRevObjectQueue.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/AsyncRevObjectQueue.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/fnmatch/GroupHead.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/fnmatch/AbstractHead.java
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* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/fnmatch/CharacterHead.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/fnmatch/FileNameMatcher.java
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  jar/org/eclipse/jgit/internal/storage/pack/BinaryDelta.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/errors/EntryExistsException.java
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* /opt/cola/permits/1110676752_1606836422.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/SubmoduleDeinitResult.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5.0.2-201807311906-r-sources-2.jar/org/eclipse/jgit/api/gitcommand/GitCommand.java  

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/gitrepo/RepoCommand.java
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jar/org/eclipse/jgit/errors/IncorrectObjectTypeException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/errors/MissingObjectException.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/ReceiveCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/PostReceiveHook.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/PreReceiveHook.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/QuotedString.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/patch/FormatError.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/patch/CombinedHunkHeader.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/treewalk/NameConflictTreeWalk.java

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  jar/org/eclipse/jgit/api/errors/PatchFormatException.java
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/** 
* Fetch objects we don't have but that are reachable from advertised refs. 
* <p> 
* Only one call per connection is allowed. Subsequent calls will result in 
* { @link org.eclipse.jgit.errors.TransportException }. 
* </p> 
* <p>
* Implementations are free to use network connections as necessary to
* efficiently (for both client and server) transfer objects from the remote
* repository into this repository. When possible implementations should
* avoid replacing/overwriting/duplicating an object already available in
* the local destination repository. Locally available objects and packs
* should always be preferred over remotely available objects and packs.
* [@link org.eclipse.jgit.transport.Transport#isFetchThin()] should be
* honored if applicable.
* </p>

* @param monitor
* progress monitor to inform the end-user about the amount of
* work completed, or to indicate cancellation. Implementations
* should poll the monitor at regular intervals to look for
* cancellation requests from the user.
* @param want
* one or more refs advertised by this connection that the caller
* wants to store locally.
* @param have
* additional objects known to exist in the destination
* repository, especially if they aren't yet reachable by the ref
* database. Connections should take this set as an addition to
* what is reachable through all Refs, not in replace of it.
* @throws org.eclipse.jgit.errors.TransportException
* objects could not be copied due to a network failure,
* protocol error, or error on remote side, or connection was
* already used for fetch.
*/

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/RemoteAddCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/RemoteListCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/RemoteSetUrlCommand.java
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  jar/org/eclipse/jgit/api/StashListCommand.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/ketch/Round.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/ketch/ReplicaPushRequest.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/ketch/KetchConstants.java
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* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/ketch/KetchPreReceive.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/storage/reftree/Command.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/ketch/KetchSystem.java
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* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/ketch/Proposal.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/ReceivedPackStatistics.java
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* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/ketch/ReplicaFetchRequest.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/ketch/ProposalRound.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/ketch/LocalReplica.java
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  jar/org/eclipse/jgit/errors/TranslationBundleLoadingException.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/errors/TranslationBundleException.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/errors/TranslationStringMissingException.java
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  jar/org/eclipse/jgit/notes/DefaultNoteMerger.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/notes/NoteMapMerger.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/treewalk/filter/PathFilterGroup.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/filter/OrRevFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/treewalk/filter/OrTreeFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/filter/AndRevFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/treewalk/filter/AndTreeFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/progressMonitor/ProgressMonitor.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/progressMonitor/ProgressMonitor.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/progressMonitor/ProgressMonitor.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/revwalk/progressMonitor/ProgressMonitor.java

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*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/api/errors/InvalidRemoteException.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/RawParseUtils.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/LogCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/errors/MultipleParentsNotAllowedException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/treewalk/filter/IndexDiffFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/RevertCommand.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/storage/reftable/ReftableOutputStream.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/storage/reftable/RefCursor.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/storage/reftable/LogCursor.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/storage/reftable/EmptyLogCursor.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/storage/reftable/ReftableCompactor.java
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jar/org/eclipse/jgit/internal/revwalk/AddToBitmapFilter.java
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jar/org/eclipse/jgit/internal/storage/io/BlockSource.java
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jar/org/eclipse/jgit/internal/storage/io/BlockConfig.java
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jar/org/eclipse/jgit/internal/storage/dfs/DfsReftableDatabase.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/treewalk/filter/PathFilter.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/errors/CommandFailedException.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/storage/file/ObjectDirectoryPackParser.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revwalk/DepthWalk.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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  jar/org/eclipse/jgit/treewalk/CanonicalTreeParser.java
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  /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/transport/RemoteSession.java
  /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/transport/JschSession.java

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jar/org/eclipse/jgit/transport/OpenSshConfig.java
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  jar/org/eclipse/jgit/transport/AdvertiseRefsHookChain.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/storage/file/PackBitmapIndexRemapper.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/NameRevCommand.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/api/FetchCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2- jar/org/eclipse/jgit/transport/PacketLineIn.java
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* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/lib/AbbreviatedObjectId.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/lib/AbbreviatedObjectId.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/jgit/merge/StrategySimpleTwoWayInCore.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/treewalk/WorkingTreeIterator.java
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jar/org/eclipse/jgit/transport/BundleWriter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/transport/UploadPack.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/transport/RefAdvertiser.java
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jar/org/eclipse/jgit/transport/SideBandProgressMonitor.java
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jar/org/eclipse/jgit/transport/SideBandOutputStream.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/transport/BaseReceivePack.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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  jar/org/eclipse/jgit/util/StringUtils.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/transport/resolver/ServiceNotEnabledException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/util/io/StreamCopyThread.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/transport/resolver/UploadPackFactory.java
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  jar/org/eclipse/jgit/util/io/MessageWriter.java
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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXBQ6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graaffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url
* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
* App Engine environment tests.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from `HTTPResponse.stream()`.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter
* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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Anthony Green <green@redhat.com>
GCC developers
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* https://github.com/eclipse-ee4j/jersey

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Archiver-Version: Plexus Archiver
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Bnd-LastModified: 1565451400486
Bundle-ManifestVersion: 2
Bundle-Document: https://jakarta.ee
Bundle-Vendor: Eclipse Foundation
Import-Package: javax.el;version="2.2",javax.inject,javax.interceptor;version="[1.2,2)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-2.4.1.201501161923
Export-Package: javax.decorator;version="2.0",javax.enterprise.inject,javax.enterprise.context;version="2.0",javax.enterprise.inject.spi;version="2.0",javax.inject;javax.enterprise.util,javax.enterprise.context.control;version="2.0",javax.enterprise.inject.java;version="[2.0,2.2)",javax.enterprise.inject.spi;version="2.0",javax.enterprise.event;version="2.0",javax.enterprise.inject.util;version="2.0",javax.enterprise.inject.literal;version="2.0",javax.enterprise.inject.se;version="2.0",javax.enterprise.inject.spi;version="2.0",javax.enterprise.inject.spi;version="2.0",javax.enterprise.inject.spi;version="2.0",javax.enterprise.inject.spi
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- analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.1511 dh-python 2.20151103ubuntu1.2

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1.1512 cxf-rt-bindings-xml 3.3.6

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1.1513 python-iniparse 0.4-6.ph3

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/j_crypto/RsaJwkGenerator.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/j_crypto/AlgorithmIdentifiers.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/j_crypto/DefaultByteGenerator.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/j_crypto/KeyManagementAlgorithmIdentifiers.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/j_crypto/RsaKeyUtil.java
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* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-jar/org/jose4j/j_crypto/CompressedKeyAlgorithm.java
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  jar/org/jose4j/jwk/HttpsJwks.java
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  jar/org/jose4j/lang/InvalidKeyException.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
  jar/org/jose4j/jwk/selectorSupport.java
* /opt/ws_local/PERMITS_SQL/1094012552_1601062549.74/0/jose4j-0-6-5-sources-
1.1518 jackson-annotations 2.11.3

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1.1519 jboss-batch-api-1-0-spec 2.0.0.Final

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## Cryptography

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1.1520 quagga 0.99.23

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The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
- analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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jar/io/netty/handler/codec/http/cors/CorsHandler.java
* /opt/ws_local/PERMITS_SQL/1068448911_1594389097.85/0/netty-codec-http-4-1-48-final-sources-1-
jar/io/netty/handler/codec/http/cors/CorsConfig.java
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* /opt/ws_local/PERMITS_SQL/1068448911_1594389097.85/0/netty-codec-http-4-1-48-final-sources-1-
* /opt/ws_local/PERMITS_SQL/1068448911_1594389097.85/0/netty-codec-http-4-1-48-final-sources-1-
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jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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```
lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
```
and the initial implementation of incremental propagation, including
the following new or changed files:

```c
include/iprop_hdr.h
kadmin/server/iprop_svc.c
lib/kdb/iprop/x
lib/kdb/iprop/kdb_convert.c
lib/kdb/iprop/kdb_log.c
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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.. parsed-literal::

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    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
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    lib/gssapi/mechglue/g_glue.c
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    lib/gssapi/mechglue/g_imp_sec_context.c
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    lib/gssapi/mechglue/g_inquire_context.c
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    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
    lib/gssapi/mechglue/g_rel_oid_set.c
    lib/gssapi/mechglue/g_seal.c
    lib/gssapi/mechglue/g_sign.c
    lib/gssapi/mechglue/g_store_cred.c
and the initial implementation of incremental propagation, including
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.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
   lib/krb5/error_tables/kdb5_err.et
   kprop/kpropd_rpc.c
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`src/plugins/preauth/spake/edwards25519.c`
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_cred.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
# DB2 licenses start with '/**' and we don't want to change them.
if line != "" and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'\*+ \*+ ([^ ]*) ( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\*/.*?\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                    code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
        ln += 1

    for fname in sys.argv[1:]:
        if fname.startswith('./'):
fname = fname[2:]
f = open(fname)
lines = f.readlines()
f.close()
check_file(lines, fname)

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       Class, field, and method level annotations for describing thread-safety policies.
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Three class-level annotations describe the intended thread-safety promises of a class: `@Immutable`, `@ThreadSafe`, and `@NotThreadSafe`. `@Immutable` means that the class is immutable, and implies `@ThreadSafe`. `@NotThreadSafe` is optional; if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use `@NotThreadSafe`.

These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with `@Immutable` actually is immutable.

Field and method annotations

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

The `@GuardedBy(lock)` annotation documents that a field or method should be accessed only with a specific lock held.

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-
1.34.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/stubs/platform_macros.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/stubs/stringprintf_unittest.cc

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/ */

Found in path(s):
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/impl/serialization_traits.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/impl/codegen/port_platform.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/python_plugin.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/impl/codegen/status.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpccpp/security/auth_context.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpccpp/security/metadata_map.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/ruby_generator_helpers-inl.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/slice.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpccpp/security/status.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/impl/codegen/slice.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/generator_helpers.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/support/status_code_enum.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/grpcpp.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_impl/rpc_method.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_impl/codegen/sync_windows.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc/impl/codegen/atm_gcc_atomic.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc/impl/codegen/atm_gcc_sync.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/support/cpu.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/support/sync_generic.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/support/sync_posix.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/cpp_plugin.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/config.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/support/async_unary_call.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/node_plugin.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/grpc_security.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/support/sync_generic.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/support/time.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/python_private_generator.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/csharp_plugin.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/support/port_platform.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/support/sync.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/implement/impl/codegen/serialization_traits.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/impl/call.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcpp/impl/server_builder_option.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/python_private_generator.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/src/compiler/csharp_plugin.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc/support/time.h

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/* "grpc_tools/_protoc_compiler.pyx":1
* # Copyright 2020 The gRPC authors.       # <<<<<<<<<<<<<<
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*#
*/

Found in path(s):
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_tools/_protoc_compiler.cpp

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```
1.34.1/third_party/protobuf/src/google/protobuf/testing/zcgzip.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-
1.34.1/third_party/protobuf/src/google/protobuf/testing/zgunzip.cc
```

```
Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.34.1
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: gRPC Python Tools

Package for gRPC Python tools.

Supported Python Versions
-------------------------
Python >= 3.5

Deprecated Python Versions
--------------------------
Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

Installation
---------

The gRPC Python tools package is available for Linux, Mac OS X, and Windows running Python 2.7.

Installing From PyPI
---------------------

If you are installing locally...

```
::

$ pip install grpcio-tools
```

Else system wide (on Ubuntu)...

```
::

$ sudo pip install grpcio-tools
```

If you're on Windows make sure that you installed the :code:`pip.exe` component
when you installed Python (if not go back and install it!) then invoke:

```
$ pip.exe install grpcio-tools
```

Windows users may need to invoke `pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of `pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

You might also need to install Cython to handle installation via the source distribution if gRPC Python's system coverage with wheels does not happen to include your system.

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires that you have the Python headers (usually a package named `python-dev`) and Cython installed. It further requires a GCC-like compiler to go smoothly; you can probably get it to work without GCC-like stuff, but you may end up having a bad time.

```
$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ../make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .
```

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

* * *... see a** `pkg_resources.VersionConflict` **when I try to install
This is likely because `pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

```
:code:`pip install --ignore-installed $OFFENDING_DEPENDENCY`
```

For example, if you get an error like the following:

```
::

 Traceback (most recent call last):
 File "<string>", line 17, in <module>
 ... 
 File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
 raise VersionConflict(dist, req)
 pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six>=1.10'))
```

You can fix it by doing:

```
::

 sudo pip install --ignore-installed six
```

**... see compiler errors on some platforms when either installing from source or from the source distribution**

If you see

```
::

 /tmp/pip-build-U8pSr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
 #include "Python.h"
 ^
 compilation terminated.
```

You can fix it by installing `python-dev` package. i.e

```
::

 sudo apt-get install python-dev
```

If you see something similar to:

```
::

```
'SIGNED_INT_MAX'
    static const Type kPosMax = SIGNED_INT_MAX(Type);

    And your toolchain is GCC (at the time of this writing, up through at least
    GCC 6.0), this is probably a bug where GCC choking on constant expressions
    when the :code:`-fwrapv` flag is specified. You should consider setting your
    environment with :code:`CFLAGS=-fno-wrapv` or using clang (:code:`CC=clang`).

Usage
-----

Given protobuf include directories :code:`$INCLUDE`, an output directory
:code:`$OUTPUT`, and proto files :code:`$PROTO_FILES`, invoke as:

::

    $ python -m grpc.tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT
    $PROTO_FILES

To use as a build step in distutils-based projects, you may use the provided
command class in your :code:`setup.py`:

::

    setuptools.setup(
        # ...
        cmdclass={
            'build_proto_modules': grpc.tools.command.BuildPackageProtos,
        }
        # ...
    )

Invocation of the command will walk the project tree and transpile every
:code:`.proto` file into a :code:`_pb2.py` file in the same directory.

Note that this particular approach requires :code:`grpcio-tools` to be
installed on the machine before the setup script is invoked (i.e. no
combination of :code:`setup_requires` or :code:`install_requires` will provide
access to :code:`grpc.tools.command.BuildPackageProtos` if it isn't already
installed). One way to work around this can be found in our
:code:`grpcio-health-checking`
`package <https://pypi.python.org/pypi/grpcio-health-checking>`_

::

    class BuildPackageProtos(setuptools.Command):
        """Command to generate project *_pb2.py modules from proto files."""

---

Open Source Used In SDWan 20.6.1  15380
def run(self):
    from grpc.tools import command
    command.build_package_protos(self.distribution.package_dir[''])

    Now including `grpcio-tools` in `setup_requires` will provide the
    command on-setup as desired.

    For more information on command classes, consult `distutils` and
    `setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: License :: OSI Approved :: Apache Software License

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34.1.tar.gz/grpcio-tools-1.34.1/PKG-INFO
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1.34.1.tar.gz/grpcio-tools-1.34.1/grpcio_tools.egg-info/PKG-INFO

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Found in path(s):
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/dynamic_message.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/message.cc
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_message_field.cc
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_generator.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/text_format.cc
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_extension.cc
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_enum.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_field_base.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/arenastring.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/util/field_comparator.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/java/java_primitive_field.cc
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_message.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/util/package_info.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/intermediate/cpp_message_field_base.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/util/proto_message.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/arenastring.h
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/java/java_primitive_field.cc
* /opt/cola/permits/1167929353_1621887451.78/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_message.h
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Open Source Used In SDWan 20.6.1  15403

1.34.1/third_party/protobuf/src/google/protobuf/port.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-
1.34.1/third_party/protobuf/src/google/protobuf/compiler/java/java_map_field.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-
1.34.1/third_party/protobuf/src/google/protobuf/compiler/cpp/cpp_generator.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-
1.34.1/third_party/protobuf/src/google/protobuf/io/zero_copy_stream_impl.cc

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/*                                                                         */
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-
1.34.1/grpc_root/include/grpc/impl/codegen/sync_abseil.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-
1.34.1/grpc_root/include/grpc/support/sync_abseil.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-
1.34.1/grpc_root/include/grpcpp/test/channel_test_peer.h

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_map_field.cc
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/third_party/protobuf/src/google/protobuf/compiler/objectivec/objectivec_map_field.cc

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 */

/// If set, grpc is free to use the HTTP GET verb for sending the request,

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcio-tools/grpc_root/include/grpc-Boldforsan/test/complicated.proto

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpcio-tools/grpc_root/test/complicated.proto

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/*
/** TLS server authorization check arguments, wraps
 * grpc_tls_server_authorization_check_arg. It is used for experimental
 * purposes for now and it is subject to change.
 *
 * The server authorization check arg contains all the info necessary to
 * schedule/cancel a server authorization check request. The callback function
 * must be called after finishing the schedule operation. See the description
 * of the grpc_tls_server_authorization_check_arg struct in grpc_security.h for
 * more details. **/

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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc++/channel.h
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* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc++/impl/client_unary_call.h
* /opt/cola/permits/1167929353_1621887451.78/0/grpcio-tools-1-34-1-tar-gz/grpcio-tools-1.34.1/grpc_root/include/grpc++/generic/async_generic_service.h
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 *
 */
/** Signal that the call is cacheable. GRPC is free to use GET verb */

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$\$(COMPILE.c) $\$(DYNAMICCPPFLAGS) $\$(DYNAMICCFLAGS) -o $@ $<

%.S\$(STATIC_O): $(srcdir)/%.cpp
$\$(COMPILE.c) $\$(STATICCPPFLAGS) $\$(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$\$(COMPILE.cc) $\$(DYNAMICCPPFLAGS) $\$(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@\$(SHELL) -ec "\$(GEN_DEPS.c) $< \n\ | sed \"s/\([^*]*/\1.o $@ : /g\" > $@; \n\ [ -s $@ ]\ || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@\$(SHELL) -ec "\$(GEN_DEPS.cc) $< \n\ | sed \"s/\([^*]*/\1.o $@ : /g\" > $@; \n\ [ -s $@ ]\ || rm -f $@"

## Versioned libraries rules

%.S$(SO).$(SO_TARGET_VERSION_MAJOR): %.S$(SO).$(SO_TARGET_VERSION)
$\$(RM) $@ && ln -s ${<F} $@

%.S$(SO): %.S$(SO).$(SO_TARGET_VERSION_MAJOR)
$\$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.1554 pax-utils 1.2.6-r1
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'"
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
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<one line to give the program’s name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19xx name of author
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    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
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program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

That's all there is to it!

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when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
#!perl

copyright.t

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = ";"
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\b\d{4,}/s
       or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /\b\d{4,}\b/s
       or die "Copyright statement not found in perl -v output '$output'";

  $year;
}
1.1556 slang 2.3.2

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```
Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files: lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

    import ply.lex as lex
import ply.yacc as yacc

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

import lex
import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
=============  
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
=================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).
The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# -------------
# calc.py
#
# # A simple calculator with variables.
# -------------

tokens = ('NAME', 'NUMBER', 'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS', 'LPAREN', 'RPAREN',
)

# Tokens

t_PLUS = r'\+'
t_MINUS = r'-'t_TIMES = r'\*'
t_DIVIDE = r'/'t_EQUALS = r'='t_LPAREN = r'('t_RPAREN = r')'t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t
```
# Ignored characters
t_ignore = " \
"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    "expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression"

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]
def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'", % p[1])
    p[0] = 0

def p_error(p):
    print("Syntax error at '%s'", % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = input('calc > ')   # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

Found in path(s):
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/README.md
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Found in path(s):
* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/example/GardenSnake/GardenSnake.py
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* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/ply/yacc.py

1.1564 objectweb-asm 7.1
1.1564.1 Available under license :

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Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author’s website came with a license that contained a GPL-incompatible advertising clause.)

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3. Replacing some modules with code written from scratch (e.g. the
RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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Last updated: 2009-02-28

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=== EOF ===

1.1566 libgcrypt 1.5.3
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1.1575 isodate 0.6.0
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Metadata-Version: 1.1
Name: isodate
Version: 0.6.0
Summary: An ISO 8601 date/time/duration parser and formatter
Home-page: https://github.com/gweis/isodate/
Author: Gerhard Weis
Author-email: gerhard.weis@proclos.com
License: BSD
Description:

ISO 8601 date/time parser

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This module implements ISO 8601 date, time and duration parsing. The implementation follows ISO8601:2004 standard, and implements only date/time representations mentioned in the standard. If something is not mentioned there, then it is treated as non existent, and not as an allowed option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not intended by this module to support 2 digit years. (while it may still be valid as ISO date, because it is not explicitly forbidden.)

Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like *date*, *time*, *datetime* and *timedelta*, it is not possible to convert all possible ISO 8601 dates/times. For instance, dates before 0001-01-01 are not allowed by the Python *date* and *datetime* classes. Additionally fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

Documentation
-------------

Currently there are four parsing methods available.

* parse_time:
  parses an ISO 8601 time string into a *time* object
* parse_date:
  parses an ISO 8601 date string into a *date* object
* parse_datetime:
  parses an ISO 8601 date-time string into a *datetime* object
* parse_duration:
  parses an ISO 8601 duration string into a *timedelta* or *Duration* object.
* parse_tzinfo:
  parses the time zone info part of an ISO 8601 string into a *tzinfo* object.

As ISO 8601 allows to define durations in years and months, and *timedelta* does not handle years and months, this module provides a *Duration* class, which can be used almost like a *timedelta* object (with some limitations). However, a *Duration* object can be converted into a *timedelta* object.

There are also ISO formatting methods for all supported data types. Each *xxx_isoformat* method accepts a format parameter. The default format is always the ISO 8601 expanded format. This is the same format used by
*datetime.isoformat*:

* time.isoformat:
  Intended to create ISO time strings with default format
  *hh:mm:ssZ*.
* date.isoformat:
  Intended to create ISO date strings with default format
  *yyyy-mm-dd*.
* datetime.isoformat:
  Intended to create ISO date-time strings with default format
  *yyyy-mm-ddThh:mm:ssZ*.
* duration.isoformat:
  Intended to create ISO duration strings with default format
  *PnnYnnMnnDTnnHnnMnnS*.
* tz.isoformat:
  Intended to create ISO time zone strings with default format
  *hh:mm*.
* strftime:
  A re-implementation mostly compatible with Python's *strftime*, but
  supports only those format strings, which can also be used for dates
  prior 1900. This method also understands how to format *datetime* and
  *Duration* instances.

Installation:
-------------
This module can easily be installed with Python standard installation methods.

Either use *python setup.py install* or in case you have *setuptools* or
*distribute* available, you can also use *easy_install*.

Limitations:
------------
* The parser accepts several date/time representation which should be invalid
  according to ISO 8601 standard.

  1. for date and time together, this parser accepts a mixture of basic and extended format.
     e.g. the date could be in basic format, while the time is accepted in extended format.
     It also allows short dates and times in date-time strings.
  2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of
     1901-01-01.
  3. negative *Duration* and *timedelta* value are not fully supported yet.

Further information:
---------------------
The doc strings and unit tests should provide rather detailed information about
the methods and their limitations.

The source release provides a `setup.py` script, which can be used to run the unit tests included.

Source code is available at `<http://github.com/gweis/isodate>`. 

**CHANGES**

========

0.6.0 (2017-10-13)
------------------

- support incomplete month date (Fabien Loffredo)
- rely on duck typing when doing duration maths
- support `:` as separator in fractional time zones (usrenmae)

0.5.4 (2015-08-06)
------------------

- Fix parsing of Periods (Fabien Bochu)
- Make Duration objects hashable (Geoffrey Fairchild)
- Add multiplication to duration (Reinoud Elhorst)

0.5.1 (2014-11-07)
------------------

- fixed pickling of Duration objects
- raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney)

0.5.0 (2014-02-23)
------------------

- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python variants and versions
- raise exceptions when using fractional years and months in date maths with durations
- renamed method todatetime on Duration objects to totimedelta

0.4.9 (2012-10-30)
------------------

- support pickling FixedOffset instances
- make sure parsed fractional seconds are in microseconds
- add leading zeros when formatting microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)
-------------------

- fixed incompatibility of unittests with python 2.5 and 2.6 (runs fine on 2.7 and 3.2)

0.4.7 (2012-01-26)
-------------------

- fixed tzinfo formatting (never pass None into tzinfo.utcoffset())

0.4.6 (2012-01-06)
-------------------

- added Python 3 compatibility via 2to3

0.4.5 (2012-01-06)
-------------------

- made setuptools dependency optional

0.4.4 (2011-04-16)
-------------------

- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)
-------------------

- Fixed problem with %P formatting and fractions (supplied by David Brooks)

0.4.2 (2010-10-28)
-------------------

- Implemented unary - for Duration (supplied by David Brooks)
- Output fractional seconds with '%P' format. (partly supplied by David Brooks)

0.4.1 (2010-10-13)
-------------------

- fixed bug in comparison between timedelta and Duration.
- fixed precision problem with microseconds (reported by Tommi Virtanen)
0.4.0 (2009-02-09)
--------------
- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)
--------------
- Initial release

TODOs
=====

This to do list contains some thoughts and ideas about missing features, and parts to think about, whether to implement them or not. This list is probably not complete.

Missing features:
-----------------

* time formating does not allow to create fractional representations.
* parser for ISO intervals.
* currently microseconds are always padded to a length of 6 characters. trailing 0s should be optional

Documentation:
--------------

* parse_datetime:
  - complete documentation to show what this function allows, but ISO forbids.
  - support other separators between date and time than 'T'

* parse_date:
  - yeardigits should be always greater than 4
  - dates before 0001-01-01 are not supported

* parse_duration:
  - alternative formats are not fully supported due to parse_date restrictions
  - standard duration format is fully supported but not very restrictive.

* Duration:
  - support fractional years and month in calculations
  - implement w3c order relation? (`<http://www.w3.org/TR/xmlschema-2/#duration-order>`_)
  - refactor to have duration mathematics only at one place.
  - localize __str__ method (does timedelta do this?)
  - when is a Duration negative?
- normalize Durations. months [00-12] and years [-inf,inf]

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Current upstream maintainers:
Bill Fenner<fenner@research.att.com>
Fulvio Risso<risso@polito.it>
Guy Harris <guy@alum.mit.edu>
Hannes Gredler<hannes@juniper.net>
Jun-ichiro itojun Hagino<itojun@iijlab.net>
Michael Richardson <mcr@sandelman.ottawa.on.ca>

Additional people who have contributed patches:

Alan Bawden<Alan@LCS.MIT.EDU>
Alexey Kuznetsov<kuznet@ms2.inr.ac.ru>
Albert Chin<china@thewrittenword.com>
Andrew Brown<atatat@atatdot.net>
Antti Kantee<pooka@netbsd.org>
Arkadiusz Miskiewicz<misiek@pld.org.pl>
Armando L. Caro Jr.<acaro@mail.eecis.udel.edu>
Assar Westerlund <assar@sics.se>
Brian Ginsbach<ginsbach@cray.com>
Charles M. Hannum<mycroft@netbsd.org>
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Franz Schaefer<schaef@mond.at>
Gianluca Varenni<varenni@netgroup-serv.polito.it>
Gisle Vanem<giva@bgnett.no>
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1.1584 snappy-java 1.1.7

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.1591 jetty-io 9.4.16.v20190411

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle
The following artifacts are CDDL + GPLv2 with classpath exception. 
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

------
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.
org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.1592 spring-boot-starter-validation
2.1.16.RELEASE
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1.1595 json4s-core 3.2.11
1.1596 jboss-msc 1.2.6

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<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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    <artifactId>jboss-parent</artifactId>
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  </parent>

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    <version.byteman>3.0.0</version.byteman>
    <version.jboss-logmanager>1.4.1.Final</version.jboss-logmanager>
    <version.jboss-logging>3.1.3.GA</version.jboss-logging>
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    <scope>test</scope>
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            </configuration>
        </plugin>
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        </plugin>
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            <artifactId>maven-surefire-plugin</artifactId>
            <configuration>
                <!-- uncomment this to enable byteman rule debug messages
                <argLine>-Dorg.jboss.byteman.debug</argLine> -->
                <includes>
                    <include>**/*.TestCase.java</include>
                </includes>
                <excludes>
                    <exclude>org/jboss/msc/bench/*.java</exclude>
                </excludes>
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                    </property>
                    <property>
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<value>org.jboss.logmanager.LogManager</value>
</property>
<!-- add this to agent parameter list to enable debug .prop:org.jboss.byteman.debug=true -->
	$$\{version.byteman\}.jar,script:$$$$\{project.build.testOutputDirectory\}/org/jboss/msc/racecondition/RejectedExecutionTestCase.btm</argLine>
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</execution>

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</property>
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      <detectLinks>false</detectLinks>
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         <artifactId>apiviz</artifactId>
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      <header><![CDATA[JBoss Modular Service Container]]></header>
      <footer><![CDATA[JBoss Modular Service Container]]></footer>
      <bottom><![CDATA[Copyright &copy; 2012 JBoss, a division of Red Hat, Inc.]]></bottom>
      <link>http://java.sun.com/javase/6/docs/api/</link>
   </configuration>
</plugin>
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   <artifactId>maven-jar-plugin</artifactId>
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      </archive>
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</plugin>
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</build>
</project>
1.1597 wildfly-elytron-provider-util
1.11.4.Final
1.1597.1 Available under license:

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jar/org/wildfly/security/provider/util/ProviderFactory.java
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* /opt/ws_local/PERMITS_SQL/1094807726_1601319446.21/0/wildfly-elytron-provider-util-1-11-4-final-sources-
jar/org/wildfly/security/provider/util/ServiceLoaderSupplier.java
* /opt/ws_local/PERMITS_SQL/1094807726_1601319446.21/0/wildfly-elytron-provider-util-1-11-4-final-sources-
jar/org/wildfly/security/provider/util/ProviderUtil.java

1.1598 vixie-cron 3.0pl1-128ubuntu2
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Open Source Used In SDWan 20.6.1 15643
Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root. When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally. (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no `&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL
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`/n  *
`/n  * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
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`/n  * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
`/n  *
`/n  */
`/n
`/n $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
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 *
 * @(#)bitstring.h 5.2 (Berkeley) 4/4/90
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* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
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* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c

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$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1000941870_1588613806.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.1

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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On Debian GNU systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'. This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of: tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f $(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Gadi Oxman, August 1995

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1.1603 libuser 0.60 9.el7
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1.1604 sysv-init 2.88dsf 59.10ubuntu1

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
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analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from http://snowball.tartarus.org/

The KStem stemmer in

analysis/common/src/org/apache/lucene/analysis/en

was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt


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(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
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The Polish analyzer (stempel) comes with a default
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or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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1.1615 neo4j-import-tool 4.1.7

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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@page
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(This file is under construction.)

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This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++++
Dean Elsner wrote the original gas for vax.  [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet.  Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

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1.1639 python-defaults 2.7.12-1~16.04
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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Breitrup <bsb@uni-muenster.de> and Bruce Perens.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.1655 commons-http-client 3.1

1.1656 postgresql 42.2.14
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1.1657 jakarta-inject 2.6.1

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## Source Code

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI) in the Netherlands as a successor of a
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includes many contributions from others. The last version released
from CWI was Python 1.2. In 1995, Guido continued his work on Python
at the Corporation for National Research Initiatives (CNRI) in Reston,
Virginia where he released several versions of the software. Python
1.6 was the last of the versions released by CNRI. In 2000, Guido and
the Python core development team moved to BeOpen.com to form the
BeOpen PythonLabs team. Python 2.0 was the first and only release
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 * /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1-jar/org/springframework/security/config/annotation/configuration/ObjectPostProcessorConfiguration.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1-jar/org/springframework/security/config/method/MethodConfigUtils.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1-jar/org/springframework/security/config/authentication/ContextSourceSettingPostProcessor.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1-jar/org/springframework/security/config/core/userdetails/UserDetailsResourceFactoryBean.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1-jar/org/springframework/security/config/annotation/web/configuration/OAuth2ClientConfiguration.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/HttpBasicConfigurer.java
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* /opt/cola/permits/1141637413_1615091467.76/0/spring-security-config-5-1-11-release-sources-1.jar/org/springframework/security/config/http/GrantedAuthorityDefaultsParserUtils.java

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  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
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- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  http://www.openssl.org/
- LIBLINEAR. Used for IPv6 OS classification.
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On Windows only, Nmap uses:
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o Python. The binary distributions of Nmap include a Python interpreter
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- Various X.org libraries. These were built using MacPorts.
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Written by: Philip Hazel
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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table of data to be supplied by an application program that uses
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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.
Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ts_dev</strong></td>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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<thead>
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<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1bebfb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfe51a88a045db233418dd73f8e bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td><strong>ts_dev</strong></td>
<td></td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#    start    end     size     fstype [fsize bsize cpg]
c:   4096   20479   16384     unused        0     0
d:    0   16064   16065     unused        0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#    start    end     size     fstype [fsize bsize cpg]
a:  4096   6144   2049    4.2BSD        0     0     0
c:  4096  20479   16384     unused        0     0
d:    0   16064   16065     unused        0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Open Source Used In SDWan 20.6.1

1.1709 jackson-xc 2.10.1

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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However, linking a "work that uses the Library" with the Library
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding
cannot legally be used without obtaining one or more licenses. For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the GIF writer has been simplified to
produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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PRIMES

## DOM Level 3 Core Specification v1.0

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List of contributors, approximately in order of time spent on project:

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* Markus Persson
* Erik Gahlin
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* Mattias Jolson
* David Lindholm
* Henrik Dafgrd
* Ola Westin
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* Thomas Hallgren
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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
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Peter Kaminski <piotrk@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean Mcafee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@gmail.com>
Vlad Losev <vlad@google.com>
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<td>Ext headers</td>
<td>GL/glext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>GL/glxext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>GL/wglext.h</td>
<td>Khronos</td>
</tr>
<tr>
<td></td>
<td>KHR/khrplatform.h</td>
<td>Khronos</td>
</tr>
</tbody>
</table>

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include/GL/g1.h:
Mesa 3-D graphics library

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include/GL/glxext.h
include/GL/wglxext.h :

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<nature>org.eclipse.pde.FeatureNature</nature>
</natures>
</projectDescription>
```

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1.1737 jboss-vfs 3.2.12

1.1738 jboss-jaspi-api-1-1-spec 2.0.1.Final

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# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
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Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@gmail.com>
Ji Sigursson <joi@gmail.com>
Keir Mierle <mierle@gmail.com>
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Markus Heule <markus.heule@gmail.com>
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Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@gmail.com>
Patrick Riley <spfr.google.com>
Peter Kaminski <piotr@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean Mcafee <seefacm@gmail.com>
Sigurur sgeirsson <siggis@gmail.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@gmail.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>
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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>  
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>  
  * NTLM-authenticated HTTPSConnectionPool

* niphlod <niphlod@gmail.com>  
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

  * Client-verified SSL certificates for HTTPSConnectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification
* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs
* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ```HTTPResponse.stream()```
  * Bugfix for ```ConnectionPool.urlopen(release_conn=False)```
  * Creation of ```HTTPConnectionPool.ResponseCls```

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ```stream``` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarks.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `utilselectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
* Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* [Your name or handle] <[email or website]>
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1.1745 conf-api 6.4.4

1.1746 libpcap 1.8.1

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1.1750 stax-ex 1.8

1.1751 python 3.5.2 2ubuntu0~16.04.9
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History and License
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History of the software
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

--------------
The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Sockets
-------
The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
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-------------

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--------

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Original location:
https://github.com/majek/csiiphash/

Solution inspired by code from:
- Samuel Neves (supercop/crypto_auth/siphash24/little)
- djb (supercop/crypto_auth/siphash24/little2)
- Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
----------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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zlib
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-------
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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 */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73f1e bsd.img

---layout-------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#       start       end      size     fstype   [fsize bsize   cpg]
c:     4096     20479     16384     unused        0     0
d:     0       16064     16065     unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#       start       end      size     fstype   [fsize bsize   cpg]
a:     4096     6144      2049     4.2BSD        0     0     0
c:     4096     20479     16384     unused        0     0
d:     0       16064     16065     unused        0     0

BSD disklabel command (m for help):
Command (m for help):
-------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition   a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

BSD disklabel command (m for help):
1.1754 atr 2.4.47-2

1.1754.1 Available under license:

This package was debianized by Nathan Scott nathans@debian.org on Sun, 19 Nov 2000 07:37:09 -0500.

It can be downloaded from ftp://oss.sgi.com/projects/xfs/download/

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Built-By: frantuma
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on https://oss.sonatype.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-integration
Bundle-SymbolicName: io.swagger.core.v3.swagger-integration
Bundle-Version: 2.1.0
Created-By: Apache Maven Bundle Plugin
implementation-version: 2.1.0
Import-Package: com.fasterxml.jackson.databind;version="[2.10,3)",io.github.classgraph;version="[4.6,5)",io.swagger.v3.core.converter;version="[2.1,3)",io.swagger.v3.core.jackson;version="[2.1,3)",io.swagger.v3.core.util;version="[2.1,3)",io.swagger.v3.oas.annotations;version="[2.1,3)",io.swagger.v3.oas.integration;version="[2.1,3)",io.swagger.v3.oas.integration.api;version="[2.1,3)",io.swagger.v3.oas.models;version="[2.1,3)",org.apache.commons.lang3;version="[3.7,4)",org.apache.commons.lang3.tuple;version="[3.7,4)",org.slf4j;version="[1.7,2"
mode: development
package: io.swagger
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-3.5.0.201709291849
url: https://github.com/swagger-api/swagger-core/modules/swagger-integration

Found in path(s):
* /opt/cola/permits/1100355732_1602736007.2/0/swagger-integration-2-1-0-jar/META-INF/MANIFEST.MF

1.1759 cryptodev-linux 1.9
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1769 debianutils 4.8.4

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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@end enumerate

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<table>
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</tr>
</tbody>
</table>

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The inverse error function implementation in the Erf class is based on CUDA
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classes are based on the Python code in module "optimize.py" (version 0.5)
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1778 slf4j 1.7.30

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* /opt/cola/permits/1134810204_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/Marker.java
* /opt/cola/permits/1134810204_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/helpers/NamedLoggerBase.java
* /opt/cola/permits/1134810204_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/helpers/IMarkerFactory.java
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* /opt/cola/permits/1134810204_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/helpers/NOPLogger.java

1.1779 spring-expression 5.1.17.RELEASE

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* /opt/cola/permits/1141637169_1615091308.85/0/spring-expression-5-1-17-release-sources-jar/org/springframework/expression/ConstructorResolver.java
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1.1780 grpc-context 1.30.2

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  jar/io/grpc/ThreadLocalContextStorage.java
  /opt/ws_local/PERMITS_SQL/1083459562_1598192355.47/0/grpc-context-1-30-2-sources-
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* /opt/ws_local/PERMITS_SQL/1083459562_1598192355.47/0/grpc-context-1-30-2-sources-jar/io/grpc/PersistentHashArrayMappedTrie.java

1.1781 json 20140107

1.1782 glibc 2.27-3ubuntu1.3
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1.1788 javassist 3.22.0-CR2
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Found in path(s):
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Desc.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewNestedClass.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/Proxy.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Executor.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Handler.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/web/Webserver.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformNew.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/SubroutineScanner.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformNew.java
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*/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/FloatMemberValue.java
*/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/StringMemberValue.java
*/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ClassMemberValue.java
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*/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
*/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ArrayMemberValue.java
1.1789 undertow-server 1.7.1.Final

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* /opt/ws_local/PERMITS_SQL/1094803158_1601321616.7/0/undertow-server-1-7-1-final-sources-jar/org/wildfly/elytron/web/undertow/server/ScopeSessionListener.java
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* /opt/ws_local/PERMITS_SQL/1094803158_1601321616.70/undertow-server-1-7-1-final-sources-jar/org/wildfly/elytron/web/undertow/server/sni/SNIAlpnEngineManager.java
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#
org.wildfly.elytron.web.undertow.server.sni.SNIAlpnEngineManager

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* /opt/ws_local/PERMITS_SQL/1094803158_1601321616.70/undertow-server-1-7-1-final-sources-jar/META-INF/services/io.undertow.protocols.alpn.ALPNEngineManager
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* /opt/ws_local/PERMITS_SQL/1094803158_1601321616.7/0/undertow-server-1-7-1-final-sources-jar/org/wildfly/elytron/web/undertow/server/SecurityContextImpl.java
* /opt/ws_local/PERMITS_SQL/1094803158_1601321616.7/0/undertow-server-1-7-1-final-sources-jar/org/wildfly/elytron/web/undertow/server/package-info.java
* /opt/ws_local/PERMITS_SQL/1094803158_1601321616.7/0/undertow-server-1-7-1-final-sources-jar/org/wildfly/elytron/web/undertow/server/ElytronContextAssociationHandler.java
* /opt/ws_local/PERMITS_SQL/1094803158_1601321616.7/0/undertow-server-1-7-1-final-sources-jar/org/wildfly/elytron/web/undertow/server/ElytronAccount.java
* /opt/ws_local/PERMITS_SQL/1094803158_1601321616.7/0/undertow-server-1-7-1-final-sources-jar/org/wildfly/elytron/web/undertow/server/ElytronHttpContext.java

1.1790 lua 5.1.4 15.el7
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1.1791 opensaml-saml-api 3.3.0

1.1792 azure-mgmt-resource 10.0.0

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interactions:
request:
body: 
  "properties": 
    "policyType": "Custom",
    "description": "Don’t create a VM anywhere",
    "policyRule": 
      "if": 
        ["allOf": 
          ["source": "action",
           "equals": "Microsoft.Compute/virtualMachines/write"],
          ["field": "location",
           "in": 
             ["eastus", "eastus2", "centralus"]]
        ]
      ,
      "then": 
        ["effect": "deny"]
  
headers:
  Accept:
  - application/json
  Accept-Encoding:
  - gzip, deflate
  Connection:
  - keep-alive
  Content-Length:
  - '288'
  Content-Type:
  - application/json; charset=utf-8
  User-Agent:
  - python/3.6.9 (Linux-5.0.0-1032-azure-x86_64-with-Ubuntu-18.04-bionic) msrest/0.6.10
    msrest_azure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
    accept-language:
    - en-US
  method: PUT
response:
body:
  "properties":
    "policyType": "Custom",
    "mode": "Indexed",
    "description": "Don’t create a VM anywhere",
    "metadata":
      "createdBy": "123743cc-88ef-49ee-920e-13958fe5697d",
      "createdOn": "2020-06-05T02:26:18.6776083Z",
      "updatedBy": null,
      "updatedOn": null,
      "policyRule": 
        "if": 
          ["allOf": 
            ["source": "action",
             "equals": "Microsoft.Compute/virtualMachines/write"],
            ["field": "location",
             "in": 
               ["eastus", "eastus2", "centralus"]]
          ],
        "then": 
          ["effect": "deny"]
    
headers:
  cache-control:
  - no-cache
  content-length:
  - '631'
  content-type:
  - application/json; charset=utf-8
  date:
  - Fri, 05 Jun 2020 02:26:18 GMT
  expires:
  - '-1'
  pragma:
  - no-cache
  strict-transport-security:
strict-transport-security:
- max-age=31536000; includeSubDomains
transfer-encoding:
- chunked
vary:
- Accept-Encoding, Accept-Encoding
x-content-type-options:
- nosniff
status:
  code: 200
  message: OK
request:
  body: null
headers:
  Accept:
- application/json
  Accept-Encoding:
- gzip, deflate
  Connection:
- keep-alive
  User-Agent:
- python/3.6.9 (Linux-5.0.0-1032-azure-x86_64-with-Ubuntu-18.04-bionic) msrest/0.6.10
  msrest_azure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
  accept-language:
- en-US
method: GET
response:
  body:
  string: ' {
  "value": [{
  "properties": {
  "displayName": "Microsoft Managed Control 1599 - Developer Configuration Management | Software / Firmware Integrity Verification",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this System and Services Acquisition control",
  "metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1599",
  "policyRule": {
  "if": {
  "allOf": [{
  "field": "type",
  "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]
  },
  {"value": "false", "equals": "true"}
  ]
  },
  "then": {
  "effect": "audit"
  }
  },
  "id": "/providers/Microsoft.Authorization/policyDefinitions/0004bbf0-5099-4179-869e-e9ffe5fb0945",
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "0004bbf0-5099-4179-869e-e9ffe5fb0945"
  },
  {"properties": {
  "displayName": "Audit virtual machines without disaster recovery configured",
  "policyType": "BuiltIn",
  "mode": "All",
  "description": "Audit virtual machines which do not have disaster recovery configured. To learn more about disaster recovery, visit https://aka.ms/asr-doc",
  "metadata": {
  "version": "1.0.0",
  "category": "Compute",
  "parameters": [],
  "policyRule": {
  "if": {
  "field": "type",
  "in": ["Microsoft.Compute/virtualMachines", "Microsoft.ClassicCompute/virtualMachines"]
  },
  "then": {
  "effect": "auditIfNo
tExists",
  "details": {
  "type": "Microsoft.Resources/links",
  "existenceCondition": {
  "field": "name",
  "like": "ASR-Protect-"}
  }
  }
  }
  }
  }
 ']
Audit Web Sockets state for a Function App, "policyType": "BuiltIn", "mode": "All", "description": "The Web Sockets protocol is vulnerable to different types of security threats. Use of Web Sockets within an Function app must be carefully reviewed.", "metadata": {
  "version": "1.0.0-deprecated",
  "category": "Security Center",
  "deprecated": true
}

parameters: {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "[Deprecated]: Effect",
      "description": "Enable or disable the execution of the policy"
    },
    "allowedValues": ["AuditIfNotExists", "Disabled"],
    "defaultValue": "AuditIfNotExists"
  }
}

"if": {
  "allof": ["field": "type", "equals": "microsoft.Web/sites"],
  "anyof": [
    "field": "kind", "equals": "functionapp",
    "field": "kind", "equals": "functionapp,linux",
    "field": "kind", "equals": "functionapp,linux,container"
  ]
}

"then": {
  "effect": ["parameters(''effect'')"],
  "details": {
    "type": "Microsoft.Security/complianceResults",
    "name": "DisableWebSockets",
    "existenceCondition": {
      "field": "Microsoft.Security/complianceResults/resourceStatus",
      "in": ["OffByPolicy", "Healthy"]
    }
  }
}

Managed Control 1375 - Incident Response Assistance | Automation Support For Availability Of Information / Support, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control",
"metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1375"
}

"if": {
  "allof": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
    "value": "false", "equals": "true"]
}

"then": {
  "effect": "audit"
}

Managed Control 1605 - Developer Security Testing And Evaluation | Static Code Analysis, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control",
"metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1605"
}

"if": {
  "allof": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
    "value": "false", "equals": "true"]
}

"then": {
  "effect": "audit"
}

ManagedControl 1375 - Incident Response Assistance | Automation Support For Availability Of Information / Support, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control",
"metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1375"
}

"if": {
  "allof": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
    "value": "false", "equals": "true"]
}

"then": {
  "effect": "audit"
}

ManagedControl 1605 - Developer Security Testing And Evaluation | Static Code Analysis, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control",
"metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1605"
}

"if": {
  "allof": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
    "value": "false", "equals": "true"]
}

"then": {
  "effect": "audit"
}

ManagedControl 1375 - Incident Response Assistance | Automation Support For Availability Of Information / Support, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control",
"metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1375"
}

"if": {
  "allof": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
    "value": "false", "equals": "true"]
}

"then": {
  "effect": "audit"
}

ManagedControl 1605 - Developer Security Testing And Evaluation | Static Code Analysis, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control",
"metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1605"
}

"if": {
  "allof": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
    "value": "false", "equals": "true"]
}

"then": {
  "effect": "audit"
}

ManagedControl 1375 - Incident Response Assistance | Automation Support For Availability Of Information / Support, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control",
"metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1375"
}

"if": {
  "allof": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
    "value": "false", "equals": "true"]
}

"then": {
  "effect": "audit"
}

ManagedControl 1605 - Developer Security Testing And Evaluation | Static Code Analysis, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control",
"metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1605"
}

"if": {
  "allof": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
    "value": "false", "equals": "true"]
}

"then": {
  "effect": "audit"
}

ManagedControl 1375 - Incident Response Assistance | Automation Support For Availability Of Information / Support, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control",
"metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1375"
}

"if": {
  "allof": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
    "value": "false", "equals": "true"]
}

"then": {
  "effect": "audit"
}

ManagedControl 1605 - Developer Security Testing And Evaluation | Static Code Analysis, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control",
"metadata": {
  "version": "1.0.0",
  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1605"
}

"if": {
  "allof": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"],
    "value": "false", "equals": "true"]
}

"then": {
  "effect": "audit"
}
The document contains policies for managing access control and remote host connection status in Windows VMs. It includes rules for auditing virtual machines based on various conditions, such as image publisher, image offer, and operating system type. The policies are designed to ensure compliance with regulatory standards and to audit results from Windows VMs where the remote host connection status does not match the specified one. These policies should be used in conjunction with corresponding deploy policies in an initiative to manage and audit Windows virtual machines effectively.
Managed Control 1515 - Personnel Termination, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1515", "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/02dd141a-a2b2-49a7-bcbd-ca31142f6211", "type": "Microsoft.Authorization/policyDefinitions", "name": "02dd141a-a2b2-49a7-bcbd-ca31142f6211", "properties": {"displayName": "Microsoft Managed Control 1327 - Authenticator Management | Password-Based Authentication", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1327", "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/03188d8f-1ae5-4fe1-974d-2d7d32ef937d", "type": "Microsoft.Authorization/policyDefinitions", "name": "03188d8f-1ae5-4fe1-974d-2d7d32ef937d", "properties": {"displayName": "Microsoft Managed Control 1229 - Information System Component Inventory | No Duplicate Accounting Of Components", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1229", "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/03752212-103c-4ab8-a306-7e813022ca9d", "type": "Microsoft.Authorization/policyDefinitions", "name": "03752212-103c-4ab8-a306-7e813022ca9d", "properties": {"displayName": "Cognitive Services accounts should restrict network access", "policyType": "BuiltIn", "mode": "Indexed", "description": "Network access to Cognitive Services accounts should be restricted. Configure network rules so only applications from allowed networks can access the Cognitive Services account. To allow connections from specific internet or on-premises clients, access can be granted to traffic from specific Azure virtual networks or to public internet IP address ranges.", "metadata": {"version": "1.0.0", "category": "Cognitive Services"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match"}}, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.CognitiveServices/accounts"}, {"field": "Microsoft.CognitiveServices/accounts/networkAcls.defaultAction", "notEquals": "Deny"}]}}, "then": {"effect": [parameters('effect')]}}}, {"id": "/providers/Microsoft.Authorization/policyDefinitions/037eea7a-bd0a-46c5-9a66-03aea78705d3", "type": "Microsoft.Authorization/policyDefinitions", "name": "037eea7a-bd0a-46c5-9a66-03aea78705d3", "properties": {"displayName": "Microsoft Managed Control 1123 - Audit Review, Analysis, And Reporting | Audit Level..."}
Adjustment","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1123"},"policyRule ":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}], "then": {"effect": "audit" } },"id":"/providers/Microsoft.Authorization/policyDefinitions/03996055-37a4-45a5-8b70-3f1ca45f87d","type":"Microsoft.Authorization/policyDefinitions","name":"03996055-37a4-45a5-8b70-3f1ca45f87d"},"properties":{"displayName":"Microsoft Managed Control 1474 - Emergency Power | Long-Term Alternate Power Supply - Minimal Operational Capability","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Physical and Environmental Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1474"},"policyRule ":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}], "then": {"effect": "audit" } },"id":"/providers/Microsoft.Authorization/policyDefinitions/03ad326e-d7a1-44b1-9a76-e17492e9c94","type":"Microsoft.Authorization/policyDefinitions","name":"03ad326e-d7a1-44b1-9a76-e17492e9c94"},"properties":{"displayName":"Microsoft Managed Control 1227 - Information System Component Inventory | Automated Unauthorized Component Detection","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1227"},"policyRule ":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}], "then": {"effect": "audit" } },"id":"/providers/Microsoft.Authorization/policyDefinitions/03b78f5e-4877-4303-b0f4-eb658f25768","type":"Microsoft.Authorization/policyDefinitions","name":"03b78f5e-4877-4303-b0f4-eb658f25768"},"properties":{"displayName":"Microsoft Managed Control 1361 - Incident Handling","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1361"},"policyRule ":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}], "then": {"effect": "audit" } },"id":"/providers/Microsoft.Authorization/policyDefinitions/03ed3be1-7276-4452-9a5d-e4168565ac67","type":"Microsoft.Authorization/policyDefinitions","name":"03ed3be1-7276-4452-9a5d-e4168565ac67"},"properties":{"displayName":"Microsoft Managed Control 1594 - Developer Configuration Management","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1594"},"policyRule ":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}], "then": {"effect": "audit" } },"id":"/providers/Microsoft.Authorization/policyDefinitions/042ba2a1-8bb8-45f4-b080-c78cf62b90e9","type":"Microsoft.Authorization/policyDefinitions","name":"042ba2a1-8bb8-45f4-b080-c78cf62b90e9"},"properties":{"displayName":"Azure Cosmos DB allowed locations","policyType":"BuiltIn","mode":"Indexed","description":"This policy enables you to restrict the locations your organization can specify when deploying Azure Cosmos DB resources. Use to enforce your geo-compliance.
requirements.","metadata":{"version":"1.0.0","category":"Cosmos
DB"},"parameters":{"listOfAllowedLocations":{"type":"Array","metadata":{"displayName":"Allowed
locations","description":"The list of locations that can be specified when
deploying Azure Cosmos DB
resources.","strongType":"location"}},"policyEffect":{"type":"String","metadata":{"displayName":"Policy
Effect","description":"The desired effect of the
policy."},"allowedValues":["deny","audit","disabled"],"defaultValue":"deny"}},"policyRule":{"if":{"allOf":[{"field
eAccounts/Locations[*]","where":{"value":"[replace(toLower(first(field(''Microsoft.DocumentDB/databaseAccount
s/Locations[*].locationName''))),
'' '',
'''')]","in":"[parameters(''listOfAllowedLocations'')]"}},"notEquals":"[length(field(''Microsoft.DocumentDB/database
Accounts/Locations[*]''))]"}]},"then":{"effect":"[parameters(''policyEffect'')]"}}},"id":"/providers/Microsoft.Author
ization/policyDefinitions/0473574d-2d43-4217-aefe941fcdf7e684","type":"Microsoft.Authorization/policyDefinitions","name":"0473574d-2d43-4217-aefe941fcdf7e684"},{"properties":{"displayName":"SQL
managed instance TDE protector should be encrypted with your own
key","policyType":"BuiltIn","mode":"Indexed","description":"Transparent
Data Encryption (TDE) with your own key support provides increased transparency
and control over the TDE Protector, increased security with an HSM-backed
external service, and promotion of separation of
duties.","metadata":{"version":"1.0.1","category":"SQL"},"parameters":{"effect":{"type":"String","metadata":{"dis
playName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":
{"field":"type","equals":"Microsoft.Sql/managedInstances"},"then":{"effect":"[parameters(''effect'')]","details":{"ty
pe":"Microsoft.Sql/managedInstances/encryptionProtector","name":"current","existenceCondition":{"allOf":[{"field
":"Microsoft.Sql/managedInstances/encryptionProtector/serverKeyType","equals":"AzureKeyVault"},{"field":"Mic
rosoft.Sql/managedInstances/encryptionProtector/uri","notEquals":""},{"field":"Microsoft.Sql/managedInstances/en
Network traffic data collection agent should be installed on Linux virtual
machines","policyType":"BuiltIn","mode":"Indexed","description":"Security
Center uses the Microsoft Monitoring Dependency Agent to collect network traffic
data from your Azure virtual machines to enable advanced network protection
features such as traffic visualization on the network map, network hardening
recommendations and specific network threats.","metadata":{"version":"1.0.0preview","category":"Monitoring","preview":"true"},"parameters":{"effect":{"type":"String","metadata":{"displayN
ame":"[Preview]:
Effect","description":"Enable or disable Dependency Agent for Linux VMs
monitoring"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":
{"if":{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"},{"anyOf":[{"allOf":[{"field":"Micr
osoft.Compute/imagePublisher","equals":"Canonical"},{"field":"Microsoft.Compute/imageOffer","equals":"Ubuntu

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Deploy Diagnostic Settings for Service Bus to Log Analytics workspace. The policy creates or updates the diagnostic settings for Service Bus to stream to a regional Log Analytics workspace when any Service Bus which is missing this diagnostic settings is created or updated.

The diagnostic settings policy is defined as follows:

```json
"parameters": {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "Effect",
      "description": "Enable or disable the execution of the policy"
    },
    "allowedValues": ["DeployIfNotExists", "Disabled"],
    "defaultValue": "DeployIfNotExists"
  },
  "profileName": {
    "type": "String",
    "metadata": {
      "displayName": "Profile name",
      "description": "The diagnostic settings profile name"
    },
    "defaultValue": "setbypolicy_logAnalytics"
  },
  "logAnalytics": {
    "type": "String",
    "metadata": {
      "displayName": "Log Analytics workspace",
      "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment’s principal ID.
    }
  },
  "metricsEnabled": {
    "type": "String",
    "metadata": {
      "displayName": "Enable metrics",
      "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False"
    },
    "allowedValues": ["True", "False"],
    "defaultValue": "False"
  },
  "logsEnabled": {
    "type": "String",
    "metadata": {
      "displayName": "Enable logs",
      "description": "Whether to enable logs stream to the Log Analytics workspace - True or False"
    },
    "allowedValues": ["True", "False"],
    "defaultValue": "True"
  }
},
"then": {
  "effect": "[parameters('effect')]",
  "details": {
    "type": "Microsoft.Insights/diagnosticSettings",
    "name": "[parameters('profileName')]",
    "existenceCondition": {
      "allOf": [{
        "field": "Microsoft.Insights/diagnosticSettings/logs-enabled",
        "equals": [parameters("logsEnabled")]
      }]
    }
  }
}
```
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[webpage content]

"then": "deployIfNotExists", "details": { "type": "Microsoft.Compute/virtualMachines/extensions", "roleDefinitionIds": [ "/providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43ce8d16293" ], "existenceCondition": { "allOf": [ { "field": "Microsoft.Compute/virtualMachines/extensions/type", "equals": "OmsAgentForLinux" }, { "field": "Microsoft.Compute/virtualMachines/extensions/publisher", "equals": "Microsoft.EnterpriseCloud.Monitoring" }, { "field": "Microsoft.Compute/virtualMachines/extensions/provisioningState", "equals": "Succeeded" } ] }, "deployment": { "properties": { "mode": "incremental", "template": { "$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": { "vmName": { "type": "string" }, "location": { "type": "string" }, "logAnalytics": { "type": "string" } } }, "variables": { "vmExtensionName": "MMAExtension", "vmExtensionPublishers": "Microsoft.EnterpriseCloud.Monitoring", "vmExtensionType": "OmsAgentForLinux", "vmExtensionTypeHandlerVersion": "1.7" }, "resources": [ { "name": [ concat(parameters("vmName"), "/") ], "apiVersion": "2018-06-01", "properties": { "publisher": "[variables("vmExtensionPublisher")]", "type": "[variables("vmExtensionType")]", "typeHandlerVersion": "[variables("vmExtensionTypeHandlerVersion")]", "autoUpgradeMinorVersion": true, "settings": { "workspaceId": "[reference(parameters("logAnalytics"), "2015-03-20").customerId]", "stopOnMultipleConnections": true, "protectedSettings": { "workspaceKey": "[listKeys(parameters("logAnalytics"), "2015-03-20").primarySharedKey]" } }, "outputs": { "policy": { "type": "string", "value": [ concat("Enabled extension for VM", ": ") ] } } }, "id": "/providers/Microsoft.Authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43e8d16293", "name": "Microsoft.Authorization/policyDefinitions/053d3325-282c-4e5c-b944-24faffd30d77", "type": "Microsoft.Authorization/policyDefinitions", "name": "053d3325-282c-4e5c-b944-24faffd30d77", "properties": { "displayName": "Microsoft Managed Control 1331 - Authenticator Management | Password-Based Authentication", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1331" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroup" ] }, { "field": "location", "equals": "[concat(parameters("location"), "/") ]" } ] } } } } ] }}

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For more details, visit https://aka.ms/pgprivatelink.

Vulnerability Assessment settings for SQL server should contain an email address to receive scan reports. Ensure that an email address is provided for the "Send scan reports to" field in the Vulnerability Assessment settings.

Diagnostic logs in Azure Data Lake Store should be enabled.

Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised.

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Managed Control 1132 - Protection Of Audit Information | Audit Backup On Separate Physical Systems / Components

Microsoft implements this Audit and Accountability control, "Microsoft Managed Control 1132 - Protection Of Audit Information | Audit Backup On Separate Physical Systems / Components"

Managed Control 1223 - Information System Component Inventory

Microsoft implements this Configuration Management control, "Microsoft Managed Control 1223 - Information System Component Inventory"

Managed Control 1640 - Transmission Confidentiality And Integrity

Microsoft implements this System and Communications Protection control, "Microsoft Managed Control 1640 - Transmission Confidentiality And Integrity"

Managed Control 1420 - Maintenance Personnel

Microsoft implements this Maintenance control, "Microsoft Managed Control 1420 - Maintenance Personnel"

Managed Control 1658 - Secure Name / Address Resolution Service (Recursive Or Caching Resolver)

Microsoft implements this System and Communications Protection control, "Microsoft Managed Control 1658 - Secure Name / Address Resolution Service (Recursive Or Caching Resolver)"

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Managed Control 1688 - Information System Monitoring

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1688" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/063b540e-4bdc-4e7a-a569-3a42dd22098", "type": "Microsoft.Authorization/policyDefinitions", "name": "063b540e-4bdc-4e7a-a569-3a42dd22098" }, {"properties": {"displayName": "Microsoft Managed Control 1688 - Information System Monitoring", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1688" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/063c3f09-e0f0-4587-8fd5-f4276fae675f", "type": "Microsoft.Authorization/policyDefinitions", "name": "063c3f09-e0f0-4587-8fd5-f4276fae675f" }, {"properties": {"displayName": "Microsoft Managed Control 1332 - Authenticator Management | Password-Based Authentication", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1332" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/068260be-a5e6-4b0a-a430-cd27071c226a", "type": "Microsoft.Authorization/policyDefinitions", "name": "068260be-a5e6-4b0a-a430-cd27071c226a" }, {"properties": {"displayName": "Microsoft Managed Control 1455 - Physical Access Control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1455" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/068a88d4-e520-434e-baf0-9005a8164e6a", "type": "Microsoft.Authorization/policyDefinitions", "name": "068a88d4-e520-434e-baf0-9005a8164e6a" }, {"properties": {"displayName": ["Deprecated": "Audit SQL DB Level Audit Setting"], "policyType": "BuiltIn", "mode": "All", "description": "Audit SQL DB level audit setting for SQL databases", "metadata": {"version": "1.0.0-deprecated", "category": "SQL", "deprecated": true }, "parameters": {"setting": {"type": "String", "metadata": {"displayName": "[Deprecated]: Audit Setting" }, "allowedValues": ["enabled", "disabled"] } }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Sql/servers/databases"}, {"field": "name", "notEquals": "master"]}, "then": {"effect": "AuditIfNotExists", "details": {"type": "Microsoft.Sql/servers/databases/auditingSettings", "name": "default", "existenceCondition": [{"allOf": [{"field": "Microsoft.Sql/auditingSettings.state", "equals": "[parameters("setting")]"]}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/06a78e20-9358-41c9-923c-fb736d382a12", "type": "Microsoft.Authorization/policyDefinitions", "name": "06a78e20-9358-41c9-923c-fb736d382a12" }, {"properties": {"displayName": "Audit VMs that do not use managed disks", "policyType": "BuiltIn", "mode": "All", "description": "This..."}}}
policy audits VMs that do not use managed disks, "metadata": {"version": "1.0.0", "category": "Compute"}, "parameters": {}, "policyRule": {"if": {"anyOf": [{"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, {"field": "Microsoft.Compute/virtualMachines/osDisk.uri", "exists": "True"}]}, {"allOf": [{"field": "type", "equals": "Microsoft.Compute/VirtualMachineScaleSets"}, {"anyOf": [{"field": "Microsoft.Compute/VirtualMachineScaleSets/osDisk.vhdContainers", "exists": "True"}, {"field": "Microsoft.Compute/VirtualMachineScaleSets/osdisk.imageUrl", "exists": "True"}]}]}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/06a78e20-9358-41c9-923c-fb736d382a4d", "type": "Microsoft.Authorization/policyDefinitions", "name": "06a78e20-9358-41c9-923c-fb736d382a4d"}, "properties": {"displayName": "Microsoft Managed Control 1366 - Incident Handling | Information Correlation", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1366"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/06c45c30-ae44-4f0f-82be-41331da911cc", "type": "Microsoft.Authorization/policyDefinitions", "name": "06c45c30-ae44-4f0f-82be-41331da911cc"}, "properties": {"displayName": "Microsoft Managed Control 1633 - Boundary Protection | Route Traffic To Authenticated Proxy Servers", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1633"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/07557aa0-e02f-4460-9a81-8ecd2fed601a", "type": "Microsoft.Authorization/policyDefinitions", "name": "07557aa0-e02f-4460-9a81-8ecd2fed601a"}, "properties": {"displayName": "CORS should not allow every resource to access your Function Apps", "policyType": "BuiltIn", "mode": "Indexed", "description": "Cross-Origin Resource Sharing (CORS) should not allow all domains to access your Function app. Allow only required domains to interact with your Function app. Only required domains to access your Function app."}, "metadata": {"version": "1.0.0", "category": "App Service"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": [{"AuditIfNotExists", "Disabled"}, {"defaultValue": "AuditIfNotExists"}], "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "functionapp*"}]}, "then": {"parameters": {"effect": "[parameters('effect')]", "details": [{"type": "Microsoft.Web/sites/config", "existenceCondition": {"field": "Microsoft.Web/sites/config/web.cors.allowedOrigins[*]", "notEquals": "*"}]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0820b7b9-23aa-4725-a1ce-ae4558f718e5", "type": "Microsoft.Authorization/policyDefinitions", "name": "0820b7b9-23aa-4725-a1ce-ae4558f718e5"}, "properties": {"displayName": "Deploy Log Analytics agent for Windows VMs", "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploy Log Analytics agent for Windows VMs if the VM Image (OS) is in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated."}, "metadata": {"version": "1.0.1", "category": "Monitoring"}, "parameters": {"logAnalytics": {"type": "String"}, "metadata": {"displayName": "Log"}}
Analytics workspace"], "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment’s principal ID.", "strongType": "omsWorkspace", "assignPermissions": true }, ]}, "listOfImageIdToInclude": [ "type": Array, "metadata": { "displayName": "Optional: List of VM images that have supported Windows OS to add to scope", "description": "Example values:

onPublisher":"Microsoft.EnterpriseCloud.Monitoring","vmExtensionType":"MicrosoftMonitoringAgent","vmExten
sionTypeHandlerVersion":"1.0"},"resources":[{"name":"[concat(parameters(''vmName''),
''/'',
variables(''vmExtensionName''))]","type":"Microsoft.Compute/virtualMachines/extensions","location":"[parameters(
''location'')]","apiVersion":"2018-0601","properties":{"publisher":"[variables(''vmExtensionPublisher'')]","type":"[variables(''vmExtensionType'')]","typ
eHandlerVersion":"[variables(''vmExtensionTypeHandlerVersion'')]","autoUpgradeMinorVersion":true,"settings":{"
workspaceId":"[reference(parameters(''logAnalytics''),
''2015-0320'').customerId]","stopOnMultipleConnections":"true"},"protectedSettings":{"workspaceKey":"[listKeys(paramete
rs(''logAnalytics''),
''2015-03-20'').primarySharedKey]"}}}],"outputs":{"policy":{"type":"string","value":"[concat(''Enabled
extension for VM'', '': '',
parameters(''vmName''))]"}}},"parameters":{"vmName":{"value":"[field(''name'')]"},"location":{"value":"[field(''lo
cation'')]"},"logAnalytics":{"value":"[parameters(''logAnalytics'')]"}}}}}}}},"id":"/providers/Microsoft.Authorizati
on/policyDefinitions/0868462e-646c-4fe3-9ceda733534b6a2c","type":"Microsoft.Authorization/policyDefinitions","name":"0868462e-646c-4fe3-9ceda733534b6a2c"},{"properties":{"displayName":"Microsoft
Managed Control 1583 - Information System
Documentation","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this System and Services Acquisition
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1583"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/0882d488-8e80-4466-bc0f0cd15b6cb66d","type":"Microsoft.Authorization/policyDefinitions","name":"0882d488-8e80-4466-bc0f0cd15b6cb66d"},{"properties":{"displayName":"[Deprecated]:
Audit Web Applications that are not using latest supported PHP
Framework","policyType":"BuiltIn","mode":"All","description":"Use
the latest supported PHP version for the latest security classes. Using older
classes and types can make your application vulnerable.","metadata":{"version":"1.0.0deprecated","category":"Security
Center","deprecated":true},"parameters":{"effect":{"type":"String","metadata":{"displayName":"[Deprecated]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":
{"allof":[{"field":"type","equals":"microsoft.Web/sites"},{"anyof":[{"field":"kind","equals":"app"},{"field":"kind",
"equals":"WebApp"},{"field":"kind","equals":"app,linux"},{"field":"kind","equals":"app,linux,container"}]}]},"the
n":{"effect":"[parameters(''effect'')]","details":{"type":"Microsoft.Security/complianceResults","name":"UseLatestP
HP","existenceCondition":{"field":"Microsoft.Security/complianceResults/resourceStatus","in":["OffByPolicy","He
althy"]}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/08b17839-76c6-4015-90e033d9d54d219c","type":"Microsoft.Authorization/policyDefinitions","name":"08b17839-76c6-4015-90e033d9d54d219c"},{"properties":{"displayName":"Deploy
Diagnostic Settings for Search Services to Log Analytics
workspace","policyType":"BuiltIn","mode":"Indexed","description":"Deploys
the diagnostic settings for Search Services to stream to a regional Log Analytics
workspace when any Search Services which is missing this diagnostic settings
is created or

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Updated.

Metadata:

- Version: "1.0.0"
- Category: "Monitoring"
- Parameters:
  - Effect: "String"
  - Metadata:
    - Display Name: "Effect"
    - Description: "Enable or disable the execution of the policy"
- Allowed Values:
  - "DeployIfNotExists"
  - "Disabled"
- Default Value: "DeployIfNotExists"
- Profile Name: "String"
- Metadata:
  - Display Name: "Profile name"
  - Description: "The diagnostic settings profile name"
- Default Value: "setbypolicy_logAnalytics"
- Log Analytics:
  - Type: "String"
  - Metadata:
    - Display Name: "Log Analytics workspace"
    - Description: "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID.
  - Strong Type: "omsWorkspace"
  - Assign Permissions: "true"
- Metrics Enabled: "String"
  - Description: "Whether to enable metrics stream to the Log Analytics workspace - True or False"
- Allowed Values:
  - "True"
  - "False"
- Default Value: "False"
- Logs Enabled: "String"
  - Description: "Whether to enable logs stream to the Log Analytics workspace - True or False"
  - Allowed Values:
  - "True"
  - "False"
- Default Value: "True"

Policy Rule:

- If:
  - Field: "type"
  - Equals: "Microsoft.Search/searchServices"
- Then:
  - Effect: "[parameters('effect')]"
  - Details:
    - Type: "Microsoft.Insights/diagnosticSettings"
    - Name: "[parameters('profileName')]
    - Existence Condition:
      - All Of:
        - Field: "Microsoft.Insights/diagnosticSettings/logs-enabled"
        - Equals: "[parameters('logsEnabled')]"
        - Field: "Microsoft.Insights/diagnosticSettings/metrics-enabled"
        - Equals: "[parameters('metricsEnabled')]

Deployment:

- Properties:
  - Mode: "incremental"
  - Content Version: "1.0.0.0"
  - Resource Name: "[parameters('resourceName')]"
  - Location: "[parameters('location')]"
  - Log Analytics: "[parameters('logAnalytics')]"
  - Metrics Enabled: "[parameters('metricsEnabled')]"
  - Logs Enabled: "[parameters('logsEnabled')]"
  - Profile Name: "[parameters('profileName')]"
  - Variables:
  - Resources:
    - Type: "Microsoft.Search/searchServices/providers/diagnosticSettings"
    - Api Version: "2017-05-01-preview"
    - Name: "[concat(parameters('resourceName'), ",", "API_VERSION", ",", "type", ",", "Microsoft.Insights", ",", "parameters('profileName'))]"
    - Location: "[parameters('location')]"
    - Depends On:
      - Workspace Id: "[parameters('workspaceId')]"
      - Metrics:
        - Category: "AllMetrics"
        - Enabled: "[parameters('metricsEnabled')]"
        - Retention Policy: "false"
        - Days: 0
      - Logs:
        - Category: "Operation Logs"
        - Enabled: "[parameters('logsEnabled')]"
    - Outputs:
    - Parameters:
      - Location:
        - Value: "[field('location')]"
        - Name: "[parameters('logAnalytics')]"
        - Metrics Enabled: "[parameters('metricsEnabled')]"
        - Logs Enabled: "[parameters('logsEnabled')]"
        - Profile Name: "[parameters('profileName')]"

Network Hardening recommendations should be applied on internet facing virtual machines. Azure Security Center analyzes the traffic patterns of Internet facing virtual machines and provides Network Security Group rule recommendations that reduce the potential attack surface.

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The policies described in the provided text are designed to ensure security and compliance in Azure environments. Here are some key points:

1. **Policy 08e6af2d-db70-460a-bfe9-d5bd474ba9d6**: This policy enforces adaptive network hardening and requires that virtual machines be in a healthy state. The effect can be either AuditIfNotExists or Disabled, with the default set to AuditIfNotExists.

2. **Policy 09024ccc-0c5f-475e-9457-b7c0d9ed487b**: This policy recommends designating more than one owner for subscriptions. The effect can be AuditIfNotExists or Disabled, with the default set to AuditIfNotExists.

3. **Policy 0925f098-7877-450b-8ba4-d1e55f2d8795**: This policy mandates that disk encryption should be applied on virtual machines. The effect can be AuditIfNotExists or Disabled, with the default set to AuditIfNotExists.

4. **Policy 0961003e-5a0a-4549-abde-af6a37f2724d**: This policy is a Microsoft-managed control that implements a baseline for identification and authentication. It ensures that network access to non-privileged accounts is secure.
Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1302"},"policyRule":{"if":{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "true": "true"}], "then": {"effect": "audit"}}, "id":/providers/Microsoft.Authorization/policyDefinitions/09828c65-e323-422b-9774-9d5c646124da","type":"Microsoft.Authorization/policyDefinitions","name":"09828c65-e323-422b-9774-9d5c646124da"},"properties":{"displayName":"Configure backup on VMs of a location to an existing central Vault in the same location","policyType":"BuiltIn","mode":"Indexed","description":"This policy configures Azure Backup protection on VMs in a given location to an existing central vault in the same location. It applies only to those VMs that are not already configured for backup. It is recommended that this policy is assigned to not more than 200 VMs. If the policy is assigned for more than 200 VMs, it can result in the backup getting triggered a few hours beyond the defined schedule. This policy will be enhanced to support more VM images," metadata:{"version":1.0.0,"category":"Backup"},"parameters":{"vaultLocation":{"type":String,"metadata":{"displayName":"Location (Specify the location of the VMs that you want to protect)"},"description":"Specify the location of the VMs that you want to protect. VMs should be backed up to a vault in the same location.\n\nFor example - southeastasia"},"backupPolicyId":{"type":String,"metadata":{"displayName":"Backup Policy (of type Azure VM from a vault in the location chosen above)"},"description":"Specify the id of the Azure backup policy to configure backup of the virtual machines. The selected Azure backup policy should be of type Azure virtual machine. This policy needs to be in a vault that is present in the location chosen above.\n\nFor example - /subscriptions/SubscriptionId/resourceGroups/resourceGroupName/providers/Microsoft.RecoveryServices/vaults/VaultName/backupPolicies/BackupPolicyName"},"effect":{"type":String,"metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues": ["deployIfNotExists","auditIfNotExists","disabled"],"defaultValue":"deployIfNotExists"},"policyRule":{"if":{"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, {"field": "location", "equals": parameters('vaultLocation')}], "anyOf": [{"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageOffer", "equals": "WindowsServer"}, {"field": "Microsoft.Compute/imageSKU", "in": ["2008-R2-SP1", "2008-R2-SP1-smalldisk", "2012-Datacenter", "2012-R2-Datacenter", "2012-R2-Datacenter-smalldisk", "2016-Datacenter", "2016-Datacenter-Server-Core", "2016-Datacenter-Server-Core-smalldisk", "2016-Datacenter-smalldisk", "2016-Datacenter-with-Containers", "2016-Datacenter-with-RDSH", "2019-Datacenter", "2019-Datacenter-Core", "2019-Datacenter-Core-smalldisk", "2019-Datacenter-Core-with-Containers", "2019-Datacenter-Core-with-Containers-smalldisk", "2019-Datacenter-smalldisk", "2019-Datacenter-with-Containers", "2019-Datacenter-with-Containers-smalldisk", "2019-Datacenter-1709-smalldisk", "Datacenter-Core-1709-smalldisk", "Datacenter-Core-1709-with-Containers-smalldisk", "Datacenter-Core-1803-with-Containers-smalldisk"]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServerHPCPack"}, {"field": "Microsoft.Compute/imageOffer", "equals": "WindowsServerHPCPack"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServerSemiAnnual"}, {"field": "Microsoft.Compute/imageOffer", "equals": "WindowsServerSemiAnnual"}], {"field": "WindowsServerSemiAnnual"}, {"field": "WindowsServerCore"}]}], {"allOf": [{"field": "Microsoft.Compute/imageOffer", "like": "*2016"}], {"field": "Microsoft.Compute/imageOffer", "like": "*-WS2016"}]}}}}}
null
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17660
implements this Media Protection control" metadata: {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1428" }, policyRule: { "if": { "allOf": [{ "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" }] }, "then": { "effect": "audit" } }, id: "providers/Microsoft.Authorization/policyDefinitions/0a77fccc7-b8d8-451a-ab52-56197913c0c7" }, type: "Microsoft.Authorization/policyDefinitions", name: "0a77fccc7-b8d8-451a-ab52-56197913c0c7", { "properties": { "displayName": "Audit resource location matches resource group location", "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit that the resource location matches its resource group location" }, metadata: { "version": "1.0.0", "category": "General" }, policyRule: { "if": { "field": "location", "notIn": ["resourcegroup().location", "global"] }, "then": { "effect": "audit" } }, id: "providers/Microsoft.Authorization/policyDefinitions/0a914e76-4921-4c19-b460-a2d36003525a" }, type: "Microsoft.Authorization/policyDefinitions", name: "0a914e76-4921-4c19-b460-a2d36003525a", { "properties": { "displayName": "[Preview]: Deploy prerequisites to audit Windows VMs configurations in 'System Audit Policies - Account Management'" }, policyType: "BuiltIn", mode: "Indexed", description: "This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: 'System Audit Policies - Account Management'. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol" }}
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notification to subscription owner for high severity alerts should be enabled","policyType":"BuiltIn","mode":"All","description":"Enable emailing security alerts to the subscription owner, in order to have them receive security alert emails from Microsoft. This ensures that they are aware of any potential security issues and can mitigate the risk in a timely fashion","metadata":{"version":"1.0.0","category":"Security Center"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}],"policyRule":{"if":{"field":"type","equals":"Microsoft.Resources/subscriptions"},"then":{"effect":"[parameters(''effect'')]","details":{"type":"Microsoft.Security/securityContacts","existenceCondition":{"field":"Microsoft.Security/securityContacts/alertsToAdmins","notEquals":"Off"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0b15565f-aa9e-48ba-8619-45960f2e314d","type":"Microsoft.Authorization/policyDefinitions","name":"0b15565f-aa9e-48ba-8619-45960f2e314d"},"properties":{"displayName":"Microsoft Managed Control 1046 - Automatic Account Lock | Purge / Wipe Mobile Device","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1046"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/registrationGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0b1aa965-7502-41f9-92be-3e2fe7cc392a","type":"Microsoft.Authorization/policyDefinitions","name":"0b1aa965-7502-41f9-92be-3e2fe7cc392a"},"properties":{"displayName":"Microsoft Managed Control 1020 - Account Management | Role-Based Schemes","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1020"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/registrationGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0b291ee8-3140-4cad-beb7-568c077c78ce","type":"Microsoft.Authorization/policyDefinitions","name":"0b291ee8-3140-4cad-beb7-568c077c78ce"},"properties":{"displayName":"Key Vault objects should be recoverable","policyType":"BuiltIn","mode":"Indexed","description":"This policy audits if key vault objects are not recoverable. Soft Delete feature helps to effectively hold the resources for a given retention period (90 days) even after a DELETE operation, while giving the appearance that the object is deleted. When "Purge protection" is on, a vault or an object in deleted state cannot be purged until the retention period of 90 days has passed. These vaults and objects can still be recovered, assuring customers that the retention policy will be followed."},"metadata":{"version":"1.0.0","category":"Key Vault"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":["Audit","Disabled"],"defaultValue":"Audit"},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.KeyVault/vaults"},{"anyOf":[{"field":"Microsoft.KeyVault/vaults/enableSoftDelete"},{"exists ":false},{"field":"Microsoft.KeyVault/vaults/enablePurgeProtection"},{"exists ":false}]},"id":"/Providers/Microsoft.KeyVault"}}
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"Microsoft<DocumentDB/databaseAccounts/mongodbDatabases", 
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Managed Control 1239 - User-Installed
Software","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1239"},"policyRule
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ion/policyDefinitions/0be51298-f643-4556-88afd7db90794879","type":"Microsoft.Authorization/policyDefinitions","name":"0be51298-f643-4556-88afd7db90794879"},{"properties":{"displayName":"Ensure
API app has ''Client Certificates (Incoming client certificates)'' set to
''On''","policyType":"BuiltIn","mode":"Indexed","description":"Client certificates
allow for the app to request a certificate for incoming requests. Only clients
that have a valid certificate will be able to reach the app.","metadata":{"version":"1.0.0","category":"App
Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable
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"equals":"false"}]},"then":{"effect":"[parameters(''effect'')]"}}},"id":"/providers/Microsoft.Authorization/policyDefi
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Managed Control 1496 - System Security
Plan","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Planning control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1496"},"policyRule
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server TDE protector should be encrypted with your own
key","policyType":"BuiltIn","mode":"Indexed","description":"Transparent
Data Encryption (TDE) with your own key support provides increased transparency
and control over the TDE Protector, increased security with an HSM-backed
external service, and promotion of separation of
duties.","metadata":{"version":"1.0.0","category":"SQL"},"parameters":{"effect":{"type":"String","metadata":{"dis
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Managed Control 1518 - Personnel Termination, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": "{"version": "1.0.0"}, "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.Authorization/policyDefinitions/0d134df8-db83-46fb-ad72-fe0c9428c8dd","id": "/providers/Microsoft.Authorization/policyDefinitions/0d134df8-db83-46fb-ad72-fe0c9428c8dd","properties": {"displayName": "Microsoft Managed Control 1518 - Personnel Termination"}

Managed Control 1713 - Software, Firmware, And Information Integrity | Integrity Checks, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": "{"version": "1.0.0"}, "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.Authorization/policyDefinitions/0d58f734-c052-40e9-8b2f-a1c2bfff0b15","id": "/providers/Microsoft.Authorization/policyDefinitions/0d58f734-c052-40e9-8b2f-a1c2bfff0b15","properties": {"displayName": "Microsoft Managed Control 1713 - Software, Firmware, And Information Integrity | Integrity Checks"}

Managed Control 1466 - Visitor Access Records, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": "{"version": "1.0.0"}, "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.Authorization/policyDefinitions/0d87c70b-5012-48e9-994b-e70dd4b8def0","id": "/providers/Microsoft.Authorization/policyDefinitions/0d87c70b-5012-48e9-994b-e70dd4b8def0","properties": {"displayName": "Microsoft Managed Control 1466 - Visitor Access Records"}

[Deprecated]: Show audit results from Windows VMs on which Windows Defender Exploit Guard is not enabled, "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines on which Windows Defender Exploit Guard is not enabled. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","id": "/providers/Microsoft.Authorization/policyDefinitions/0d943a9c-a6f1-401f-a792-740cdb09c451","properties": {"displayName": "[Deprecated]: Show audit results from Windows VMs on which Windows Defender Exploit Guard is not enabled"}

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ageOffer","equals":"renderingwindows2016"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-securityinc"},{"field":"Microsoft.Compute/imageOffer","like":"cis-windows-server201*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"pivotal"},{"field":"Microsoft.Compute/
imageOffer","like":"bosh-windowsserver*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructureservices"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Comp
ute/virtualMachines/osProfile.windowsConfiguration","exists":"true"},{"field":"Microsoft.Compute/virtualMachine
s/storageProfile.osDisk.osType","like":"Windows*"}]},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists
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ageOffer","notLike":"SQL2008*"}]}]}]}]}]},{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machin
es"},{"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}]}]},"then":{"effect":"auditIfNotExists","
details":{"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"WindowsDefenderExplo
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Status","equals":"Compliant"}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/0d9b45ff-9ddd43fc-bf59-fbd1c8423053","type":"Microsoft.Authorization/policyDefinitions","name":"0d9b45ff-9ddd-43fc-bf59fbd1c8423053"},{"properties":{"displayName":"Managed
identity should be used in your Function App","policyType":"BuiltIn","mode":"Indexed","description":"Use
a managed identity for enhanced authentication security","metadata":{"version":"1.0.0","category":"App
Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable
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policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":
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ion/policyDefinitions/0da106f2-4ca3-48e8-bc85c638fe6aea8f","type":"Microsoft.Authorization/policyDefinitions","name":"0da106f2-4ca3-48e8-bc85c638fe6aea8f"},{"properties":{"displayName":"Microsoft
Managed Control 1718 - Software, Firmware, And Information Integrity | Binary
Or Machine Executable Code","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this System and Information Integrity
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1718"},"policyRule
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Authorized IP ranges should be defined on Kubernetes
Services","policyType":"BuiltIn","mode":"All","description":"Restrict
access to the Kubernetes Service Management API by granting API access only
to IP addresses in specific ranges. It is recommended to limit access to authorized
IP ranges to ensure that only applications from allowed networks can access

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the cluster.","metadata":{"version":"1.0.1-preview","category":"Security
Center","preview":true},"parameters":{"effect":{"type":"String","metadata":{"displayName":"[Preview]:
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policy"},"allowedValues":["Audit","Disabled"],"defaultValue":"Audit"}},"policyRule":{"if":{"allOf":[{"field":"typ
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/apiServerAccessProfile.authorizedIPRanges","exists":"false"}]},"then":{"effect":"[parameters(''effect'')]"}}},"id":"/
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debugging should be turned off for Function
Apps","policyType":"BuiltIn","mode":"Indexed","description":"Remote
debugging requires inbound ports to be opened on function apps. Remote debugging
should be turned off.","metadata":{"version":"1.0.0","category":"App
Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable
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policy creates a system-assigned managed identity and deploys the VM extension
for Guest Configuration on Windows VMs. This is a prerequisite for Guest Configuration
Policy and must be assigned to the scope before using any Guest Configuration
policy. For more information on Guest Configuration policies, please visit
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Audit Azure Spring Cloud instances where distributed tracing is not
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THUMBPRINT1;THUMBPRINT2;THUMBPRINT3"
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Managed Control 1554 - Vulnerability Scanning | Discoverable Information

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Risk Assessment control.

> Microsoft implements this Risk Assessment control

**Policy Rule**

- **If**:
  - `allOf`:
    - `field`: `type`
    - `value`: false
    - `equals`: true
  - `then`:
    - `effect`: audit

- **Details**:
  - `type`: Microsoft.Web/sites/config
  - `name`: web
  - `existenceCondition`:
    - `field`: Microsoft.Web/sites/config/web.netFrameworkVersion
    - `in`:
      - v3.0
      - v4.0

**Policy Definition**

- ID: /providers/Microsoft.Authorization/policyDefinitions/10c1859c-e1a7-4df3-ab97-a487fa8059f6
- Type: Microsoft.Authorization/policyDefinitions
- Name: 10c1859c-e1a7-4df3-ab97-a487fa8059f6

**Properties**

- **DisplayName**: Custom subscription owner roles should not exist
- **Policy Type**: BuiltIn
- **Mode**: All
- **Description**: This policy ensures that no custom subscription owner roles exist.

**Parameters**

- **Effect**: `Audit`, `Disabled`
- **Metadata**:
  - **Version**: 1.0.0
  - **Category**: General
  - **Description**: Enable or disable the execution of the policy

**Policy Rule**

- **If**:
  - `allOf`:
    - `field`: `type`
    - `equals`: CustomRole
  - `anyOf`:
    - `not`:
      - `field`: `permissions[*].actions[*]`
    - `not`:
      - `field`: `Microsoft.Authorization/roleAssignments/assignableScopes[*]`
    - `not`: `value`:
      - `notLike`:
        - `/providers/Microsoft.Management/*`
  - `then`:
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learning to analyze the running processes on your machines and suggest a list of known-safe applications. These are presented as recommended apps to whitelist in adaptive application control policies.

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Microsoft implements this System and Information Integrity control.

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Open Source Used In SDWan 20.6.1 17679
Open Source Used In SDWan

20f7382dd24c", "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "WhitelistedApplication", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash", "equals": [base64(concat("[InstalledApplication]bwhitelistedapp;Name", ",parameters("[installedApplication]")])], "deployment": {"properties": {"mode": "incremental", "parameters": {"vmName": {"value": [field("name")]}, "location": {"value": [field("location")]}, "type": {"value": [field("type")]}, "configurationName": {"value": "WhitelistedApplication"}, "installedApplication": {"value": [parameters("installedApplication")]}}, "template": {"$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"vmName": {"type": "string"}, "location": {"type": "string"}, "configurationName": {"type": "string"}, "installedApplication": {"type": "string"}, "resources": {"condition": [equals(toLower(parameters("type")), toLower("Microsoft.HybridCompute/machines"))], "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": [concat(parameters("vmName"))], "Microsoft.GuestConfiguration", parameters("configurationName")], "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": "1.*", "configurationParameter": [{"name": "[InstalledApplication]bwhitelistedapp;Name", "value": [parameters("installedApplication")]}]}}}, "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2018-11-20", "type": "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", "name": [concat(parameters("vmName"))], "Microsoft.GuestConfiguration", parameters("configurationName")], "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": "1.*", "configurationParameter": [{"name": "[InstalledApplication]bwhitelistedapp;Name", "value": [parameters("installedApplication")]}]}}}, "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2019-07-01", "type": "Microsoft.Compute/virtualMachines", "identity": {"type": "SystemAssigned"}, "name": [parameters("vmName")], "location": [parameters("location")], "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2015-05-01-preview", "name": [concat(parameters("vmName"), "/AzurePolicyforWindows"), "type": "Microsoft.Compute/virtualMachines/extensions", "location": [parameters("location")], "properties": {"publisher": "Microsoft.GuestConfiguration", "type": "ConfigurationforWindows", "typeHandlerVersion": "1.1", "autoUpgradeMinorVersion": true, "settings": [], "protectedSettings": []}, "dependsOn": ["[concat(Microsoft.Compute/virtualMachines/parameters("vmName"), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters("configurationName")])"]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/12f7e5d0-42a7-4630-80d8-54fb7c99bd6", "type": "Microsoft.Authorization/policyDefinitions", "name": "12f7e5d0-42a7-4630-80d8-54fb7c99bd6", "properties": {"displayName": "Microsoft Managed Control 1347 - Identification And Authentication (Non-Org. Users) | Acceptance Of PIV Creds. From Other Agys.", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1347"}, "policyRule": 
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Managed Control 1450 - Physical Access Compliance

Microsoft implements this Physical and Environmental Protection control

Managed Control 1184 - Configuration Change Control

Managed Control 1085 - Publicly Accessible Content

Managed Control 1404 - Maintenance Tools

Managed Control 1695 - Information System Monitoring | Wireless Intrusion Detection

Open Source Used In SDWan 20.6.1
Deploy prerequisites to audit Windows VMs in which the Administrators group contains any of the specified members.

This policy creates a Guest Configuration assignment to audit Windows virtual machines in which the Administrators group contains any of the specified members. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

**Policy Rule:**
```
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        - field: Microsoft.Compute/imagePublisher
          in:
            - esri
            - incredibuild
            - MicrosoftDynamicsAX
            - MicrosoftSharepoint
            - MicrosoftVisualStudio
            - MicrosoftWindowsDesktop
            - MicrosoftWindowsServerHPCPack
        - field: Microsoft.Compute/imageSKU
          notLike:
            - 2008*
    - allOf:
        - field: Microsoft.Compute/imagePublisher
          equals: MicrosoftWindowsServer
        - field: Microsoft.Compute/imageSKU
          notLike:
            - SQL2008*
    - allOf:
        - field: Microsoft.Compute/imagePublisher
          equals: microsoft-dsvm
        - field: Microsoft.Compute/imageOffer
          equals: dsvm-windows
    - allOf:
        - field: Microsoft.Compute/imagePublisher
          equals: microsoft-ads
        - field: Microsoft.Compute/imageOffer
          in:
            - standard-data-science-vm
            - windows-data-science-vm
    - allOf:
        - field: Microsoft.Compute/imagePublisher
          equals: MicrosoftSQLServer
        - field: Microsoft.Compute/imageOffer
          notLike:
            - SQL2008*
    - allOf:
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          equals: microsoft-dsvm
        - field: Microsoft.Compute/imageOffer
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        - field: Microsoft.Compute/imagePublisher
          equals: center-for-internet-security-inc
        - field: Microsoft.Compute/imageOffer
          like: cis-windows-server-201*
    - allOf:
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          equals: pivotal
        - field: Microsoft.Compute/imageOffer
          like: bosh-windows-server*
    - allOf:
        - field: Microsoft.Compute/imagePublisher
          equals: cloud-infrastructure-services
        - field: Microsoft.Compute/imageOffer
          like: ad*
    - anyOf:
        - field: Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration
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        - field: Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType
          like: Windows*
    - anyOf:
        - field: Microsoft.Compute/imageSKU
          exists: false
        - field: Microsoft.Compute/imageSKU
          notLike: 2008*
        - field: Microsoft.Compute/imageOffer
          notLike: SQL2008*
        - field: Microsoft.Compute/imageOffer
          like: windows*
    - effect: deployIfNotExists
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      name:
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Open Source Used In SDWan 20.6.1 17682
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          "in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],
          "value":false,
          "equals":true
        }
      ],
      "then":{
        "effect":audit
      }
    }
  },
  "id":/providers/Microsoft.Authorization/policyDefinitions/165cb91f-7ea8-4ab7-beaf-8636b98c9d15,"type":Microsoft.Authorization/policyDefinitions,"name":165cb91f-7ea8-4ab7-beaf-8636b98c9d15,"properties":{
  "displayName":"Microsoft Managed Control 1684 - Information System Monitoring"},
  "policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{
  "version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1684","policyRule":{
    "if":{
      "allOf":[
        {
          "field":"type",
          "in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],
          "value":false,
          "equals":true
        }
      ],
      "then":{
        "effect":audit
      }
    }
  },
  "displayName":"Show audit results from Windows VMs that do not have the specified Windows PowerShell modules installed"},
  "policyType":"BuiltIn","mode":"All","description":"This
policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that do not have the specified Windows PowerShell modules installed. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```json
"if": {
  "anyOf": [
    {
      "allOf": [
        {
          "field": "Microsoft.Compute/virtualMachines",
          "anyOf": [
            {
              "field": "Microsoft.Compute/imagePublisher",
              "in": [
                "esri",
                "incredibuild",
                "MicrosoftDynamicsAX",
                "MicrosoftSharepoint",
                "MicrosoftVisualStudio",
                "MicrosoftWindowsServerHPCPack"
              ],
              "allOf": [
                {
                  "field": "Microsoft.Compute/imagePublisher",
                  "equals": "MicrosoftWindowsServer"
                },
                {
                  "field": "Microsoft.SqlServer/{0}".formatof("sqlserver"),
                  "notLike": "SQL2008*"
                }
              ]
            }
          ]
        }
    ]
  ]
},
"then": {
  "effect": "auditIfNotExists",
  "details": {
    "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments",
    "name": "WindowsPowerShellModules",
    "existenceCondition": {
      "field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus",
      "equals": "Compliant"
    }
  }
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/16f9b37c-4408-4c30-bc17-254958f2e2d6",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "16f9b37c-4408-4c30-bc17-254958f2e2d6"
},
"properties": {
  "displayName": "Microsoft Managed Control 1103 - Audit Events",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Audit and Accountability control",
  "metadata": {
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1103"
  }
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/16feeb31-6377-437e-bbab-d7f73911896d",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "16feeb31-6377-437e-bbab-d7f73911896d"
},
"properties": {
  "displayName": "Microsoft Managed Control 1007 - Account Management",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Access Control control",
  "metadata": {
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1007"
  }
}"
```
Open Source Used In SDWan

Managed Control 1349 - Identification And Authentication (Non-Org. Users)

<table>
<thead>
<tr>
<th>Use Of PICAM-Approved Products</th>
</tr>
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<tbody>
<tr>
<td>&quot;policyType&quot;: &quot;Static&quot;,</td>
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<tr>
<td>&quot;mode&quot;: &quot;Indexed&quot;,</td>
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<td>&quot;policyRule&quot;:</td>
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<td>&quot;if&quot;:</td>
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<td>&quot;allOf&quot;:</td>
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<td>[{ &quot;field&quot;: &quot;type&quot;,</td>
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<tr>
<td>&quot;in&quot;: [ &quot;Microsoft.Resources/subscriptions&quot;,</td>
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<td>&quot;Microsoft.Resources/subscriptions/resourceGroups&quot;] },</td>
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<td>&quot;equals&quot;: &quot;true&quot; } ] },</td>
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<td>&quot;then&quot;:</td>
</tr>
<tr>
<td>{ &quot;effect&quot;: &quot;audit&quot; } ]</td>
</tr>
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</table>

Deploy associations for a managed application

"policyType": "BuiltIn", |
| "mode": "Indexed", |
| "description": "Deploys an association resource that associates selected resource types to the specified managed application. This policy deployment does not support nested resource types.", |
| "metadata": |
| "version": "1.0.0", |
| "category": "Managed Application", |
| "parameters": |
| { "targetManagedApplicationId": |
| "type": "String", |
| "metadata": |
| { "displayName": "Managed application ID", |
| "description": "Resource ID of the managed application to which resources need to be associated." } }, |
| { "resourceTypesToAssociate": |
| { "type": "Array", |
| "metadata": |
| { "displayName": "Resource types to associate", |
| "description": "The list of resource types to be associated to the managed application.", |
| "strongType": "resourceTypes" } }, |
| { "associationNamePrefix": |
| { "type": "String", |
| "metadata": |
| { "displayName": "Association name prefix", |
| "description": "Prefix to be added to the name of the association resource being created." } }, |
| { "defaultValue": "DeployedByPolicy" } ], |
| "policyRule": |
| { "if": |
| { "field": "type", |
| "in": [ parameters("resourceTypesToAssociate") ] } }, |
| { "then": |
| { "if": "deployIfNotExists", |
| "details": |
| { "type": "Microsoft.CustomProviders/Association", |
| "roleDefinitionIds": |
| [ "/providers/Microsoft.Authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c" ], |
| { "deployment": |
| { "properties": |
| { "mode": "Incremental", |
| "template": |
| "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", |
| "contentVersion": "1.0.0.0", |
| "parameters": |
| { "associatedResourceName": |
| { "type": "string" }, |
| { "targetManagedApplicationId": |
| { "type": "string" }, |
| { "associationNamePrefix": |
| { "type": "string" } } }, |
| { "variables": |
| { "resourceType": |
| [ concat(parameters("resourceTypesToAssociate"), |
| "providers/associations") ] }, |
| { "resourceName": |
| concat(parameters("associatedResourceName"), |
| "/microsoft.customproviders/", |
| parameters("associationNamePrefix"), |
| "-", |
| uniqueString(parameters("targetManagedApplicationId")) ) ] }, |
| { "resources": |
| [ |
| { "type": "Microsoft.Resources/deployments", |
| "apiVersion": "2017-05-10", |
| "name": |
| concat(deployment().Name, |
| "-2") } ] }, |
| { "properties": |
| { "mode": "Incremental", |
| "template": |
| "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", |
| "contentVersion": "1.0.0.0", |
| "resources": |
| [ |
| { "variables("resourceType")" }, |
| { "name": |
| concat(parameters("targetManagedApplicationId"), |
| "-2") } ] }, |
| { "parameters": |
| { "r
**Data Encryption on SQL databases should be enabled**

- **BuiltIn**, **mode**: Indexed, **description**: Transparent data encryption should be enabled to protect data-at-rest and meet compliance requirements.

- **Microsoft Managed Control 1325 - Authenticator Management**: 
  - **Static**, **mode**: Indexed, **description**: Microsoft implements this Identification and Authentication control.

- **Microsoft Managed Control 1480 - Temperature And Humidity Controls**: 
  - **Static**, **mode**: Indexed, **description**: Microsoft implements this Physical and Environmental Protection control.

- **Bring your own key data protection should be enabled for PostgreSQL servers**: 
  - **BuiltIn**, **mode**: Indexed, **description**: This policy audits PostgreSQL servers in your environment without bring your own key data protection enabled. For more details, visit https://aka.ms/postgresqlbyok.
Managed Control 1369 - Incident Monitoring

- "policyType": "Static",
- "mode": "Indexed",
- "description": "Microsoft implements this Incident Response control",
- "metadata": {
  "type": "Microsoft.Authorization/policyDefinitions/18adea5e-f416-4d0f-8aa8-d24321e3e274",
  "name": "Microsoft.Authorization/policyDefinitions",
  "properties": {
    "displayName": "Microsoft Authorized Control 1369 - Incident Monitoring",
    "policyType": "Static",
    "mode": "Indexed",
    "description": "Microsoft implements this Incident Response control",
    "metadata": {
      "version": "1.0.0",
      "category": "Regulatory Compliance",
      "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/AFC1369",
      "policyRule": {
        "if": {
          "allOf": [
            "field": "type",
            "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
          ],
          "not": {
            "field": "Microsoft.Resources/subscriptions/resourceGroups/keys/uri",
            "equals": "true"
          }
        },
        "then": {
          "effect": "audit"
        }
      }
    }
  }
}

Managed Control 1269 - Alternate Storage Site | Separation From Primary Site

- "policyType": "Static",
- "mode": "Indexed",
- "description": "Microsoft implements this Contingency Planning control",
- "metadata": {
  "name": "Microsoft.Authorization/policyDefinitions",
  "properties": {
    "displayName": "Microsoft Authorized Control 1269 - Alternate Storage Site | Separation From Primary Site",
    "policyType": "Static",
    "mode": "Indexed",
    "description": "Microsoft implements this Contingency Planning control",
    "metadata": {
      "version": "1.0.0",
      "category": "Regulatory Compliance",
      "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/AFC1269",
      "policyRule": {
        "if": {
          "allOf": [
            "field": "type",
            "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
          ],
          "not": {
            "field": "Microsoft.Resources/subscriptions/resourceGroups/keys/uri",
            "equals": "true"
          }
        },
        "then": {
          "effect": "audit"
        }
      }
    }
  }
}

Managed Control 1071 - Wireless Access | Restrict Configurations By Users

- "policyType": "Static",
- "mode": "Indexed",
- "description": "Microsoft implements this Access Control control",
- "metadata": {
  "type": "Microsoft.Authorization/policyDefinitions/19b9439d-865d-4474-b17d-97d2702fdb66",
  "name": "Microsoft.Authorization/policyDefinitions",
  "properties": {
    "displayName": "Microsoft Authorized Control 1071 - Wireless Access | Restrict Configurations By Users",
    "policyType": "Static",
    "mode": "Indexed",
    "description": "Microsoft implements this Access Control control",
    "metadata": {
      "version": "1.0.0",
      "category": "Regulatory Compliance",
      "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/AFC1071",
      "policyRule": {
        "if": {
          "allOf": [
            "field": "type",
            "in": ["Microsoft.Resources/subscriptions", "Microsoft/Resources/subscriptions/resourceGroups"]
          ],
          "not": {
            "field": "Microsoft.Resources/subscriptions/resourceGroups/keys/uri",
            "equals": "true"
          }
        },
        "then": {
          "effect": "audit"
        }
      }
    }
  }
}

Monitor log profile should collect logs for categories "write," "delete," and "action"

- "policyType": "BuiltIn",
- "mode": "All",
- "description": "This policy ensures that a log profile collects logs for categories "write," "delete," and "action"
- "metadata": {
  "type": "Microsoft.Insights/logprofiles",
  "existenceCondition": {
    "allOf": [
      "not": {
        "field": "Microsoft.Insights/logProfiles/categories[*]",
        "equals": "Write"
      }
    ]
  }
}

Access to App Services should be restricted

- "policyType": "BuiltIn",
- "mode": "All",
- "description": "Azure
security center has discovered that the networking configuration of some of your app services are overly permissive and allow inbound traffic from ranges that are too broad. Metadata: ["version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true], "parameters": ["effect": ["type": "String", "metadata": ["displayName": ["Deprecation: Effect", "description": "Enable or disable the execution of the policy"], "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "Disabled"]], "policyRule": ["if": ["field": "type", "equals": "Microsoft.Web/sites"], "then": ["effect": ["parameters("effect")"], "details": ["type": "Microsoft.Security/complianceResults", "name": "restrictAccessToAppServices", "existenceCondition": ["field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]], "id": "/providers/Microsoft.Authorization/policyDefinitions/1a833ff1-d297-4a0f-9944-888428fe0ff"], "type": "Microsoft.Authorization/policyDefinitions", "name": "1a833ff1-d297-4a0f-9944-888428fe0ff"], ["properties": ["displayName": "Vulnerability assessment should be enabled on your SQL managed instances", "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit SQL managed instances which do not have recurring vulnerability assessment scans enabled. Vulnerability assessment can discover, track, and help you remediate potential database vulnerabilities.", "metadata": ["version": "1.0.1", "category": "SQL"], "parameters": ["effect": ["type": "String", "metadata": ["displayName": "Effect", "description": "Enable or disable the execution of the policy"], "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"]], "policyRule": ["if": ["field": "type", "equals": "Microsoft.Sql/managedInstances"], "then": ["effect": ["parameters("effect")"], "details": ["type": "Microsoft.Sql/managedInstances/vulnerabilityAssessments", "name": "default", "existenceCondition": ["field": "Microsoft.Sql/managedInstances/vulnerabilityAssessments/recurringScans.isEnabled", "equals": "True"]], "id": "/providers/Microsoft.Authorization/policyDefinitions/1b7aa243-30e4-4c9e-bca8-d0d302b634a"], "type": "Microsoft.Authorization/policyDefinitions", "name": "1b7aa243-30e4-4c9e-bca8-d0d302b634a"], ["properties": ["displayName": "Ensure that "PHP version" is the latest, if used as a part of the Api app", "policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, newer versions are released for PHP software either due to security flaws or to include additional functionality. Using the latest PHP version for API apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.", "metadata": ["version": "1.0.0", "category": "App Service"], "parameters": ["effect": ["type": "String", "metadata": ["displayName": "Effect", "description": "Enable or disable the execution of the policy"], "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"]], "policyRule": ["if": ["allOf": ["field": "type", "like": "*api"]], "then": ["effect": ["parameters("effect")"], "details": ["type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": ["anyOf": ["allOf": ["field": "Microsoft.Web/sites/config/web.linuxFxVersion", "notContains": "PHP"], "field": "Microsoft.Web/sites/config/web.phpVersion", "equals": ""]], "allOf": ["field": "Microsoft.Web/sites/config/web.linuxFxVersion", "equals": ""], "concat("PHP", ["parameters("PHPLatestVersion")"]), "field": "Microsoft.Web/sites/config/web.phpVersion", "equals": "]"], "allOf": ["field": "Microsoft.Web/sites/config/web.linuxFxVersion", "equals": ""], "field": "Microsoft.Web/sites/config/web.phpVersion", "equals": ["parameters("PHPLatestVersion")"]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/1bc1795e-d44a-4d48-9b3b-6ff0fd5fb9ba"], "type": "Microsoft.Authorization/policyDefinitions", "name": "1bc1795e-d44a-4d48-9b3b-6ff0fd5fb9ba"].
Dependency agent for Windows VMs if the VM Image (OS) is in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated.

**metadata**:
- **version**: 1.0.1
- **category**: Monitoring

**parameters**:
- **listOfImageIdToInclude**: 
  - **type**: Array
  - **metadata**:
    - **displayName**: Optional: List of VM images that have supported Windows OS to add to scope
    - **description**: Example value:
    - "/subscriptions/.subscriptionId/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage""
  - **defaultValue**: []

**policyRule**:
- **if**:
  - **allOf**:
    - **field**: type
      - **equals**: Microsoft.Compute/virtualMachines
    - 
      - **anyOf**:
        - **field**: Microsoft.Compute/imageId
          - **in**: parameters(listOfImageIdToInclude])
        - **allOf**:
          - **field**: Microsoft.Compute/imagePublisher
            - **equals**: MicrosoftWindowsServer
          - **field**: Microsoft.Compute/imageOffer
            - **equals**: WindowsServer
          - **field**: Microsoft.Compute/imageSKU
    - 
      - **allOf**:
        - **field**: Microsoft.Compute/imagePublisher
          - **equals**: MicrosoftWindowsServer
        - **field**: Microsoft.Compute/imageOffer
          - **equals**: WindowsServerSemiAnnual
        - **field**: Microsoft.Compute/imageSKU
    - 
      - **allOf**:
        - **field**: Microsoft.Compute/imagePublisher
          - **equals**: MicrosoftWindowsServerHPCPack
        - **field**: Microsoft.Compute/imageOffer
          - **equals**: WindowsServerHPCPack
    - 
      - **allOf**:
        - **field**: Microsoft.Compute/imagePublisher
          - **equals**: MicrosoftSQLServer
        - **anyOf**:
          - **field**: Microsoft.Compute/imageOffer
            - **like**: *-WS2016*
    - **field**: Microsoft.Compute/imagePublisher
    - **like**: *-WS2016-BYOL*
    - **field**: Microsoft.Compute/imagePublisher
    - **like**: *-WS2012R2-BYOL*
    - 
      - **allOf**:
        - **field**: Microsoft.Compute/imagePublisher
          - **equals**: MicrosoftRServer
        - **field**: Microsoft.Compute/imageOffer
          - **equals**: MLServer-WS2016
    - 
      - **allOf**:
        - **field**: Microsoft.Compute/imagePublisher
          - **equals**: MicrosoftVisualStudio
        - **field**: Microsoft.Compute/imageOffer
          - **in**: ['VisualStudio', 'Windows']
    - 
      - **allOf**:
        - **field**: Microsoft Compute/imagePublisher
          - **equals**: MicrosoftDynamicsAX
        - **field**: Microsoft.Compute/imageOffer
          - **equals**: Dynamics
    - 
      - **field**: Microsoft.Compute/imageSKU
        - **equals**: Pre-Req-Ax7-Onebox-U8
    - 
      - **allOf**:
        - **field**: Microsoft.Compute/imagePublisher
          - **equals**: microsoft-ads
        - **field**: Microsoft.Compute/imageOffer
          - **equals**: windows-data-science-vm
    - 
      - **allOf**:
        - **field**: Microsoft.Compute/imagePublisher
          - **equals**: MicrosoftWindowsDesktop
        - **field**: Microsoft.Compute/imageOffer
          - **equals**: Windows-10
        - **then**: 
          - **effect**: deployIfNotExists
        - **details**: 
          - **type**: Microsoft.Compute/virtualMachines/extensions
          - **roleDefinitionsIds**: /providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-42b6-9a43-d43ce8d16293
          - **existenceCondition**: 
            - **allOf**:
              - **field**: Microsoft.Compute/virtualMachines/extensions/type
              - **equals**: DependencyAgentWindows
            - **field**: Microsoft.Compute/virtualMachines/extensions/publisher
              - **equals**: Microsoft.Azure.Monitoring.DependencyAgent
          - **field**: Microsoft.Compute/virtualMachines/extensions/provisioningState
            - **equals**: Succeeded
        - **deployment**: 
          - **properties**: 
            - **mode**: incremental
            - **template**: Sschema
          - **http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#**
          - **contentVersion**: 1.0.0.0
          - **parameters**: 
            - **vmName**: 
            - **type**: string
            - **location**: 

"type":"string"},"variables":{"vmExtensionName":"DependencyAgent","vmExtensionPublisher":"Microsoft.Azure.Monitoring.DependencyAgent","vmExtensionType":"DependencyAgentWindows","vmExtensionTypeHandlerVersion":"9.6"},"resources": [{"type":"Microsoft.Compute/virtualMachines/extensions","name": [concat(parameters('vmName'),"\"\",variables('vmExtensionName'))],"apiVersion":"2018-06-01","location": [parameters('location')],"properties": {"publisher": variables('vmExtensionPublisher'),"type": [variables('vmExtensionType')],"typeHandlerVersion": [variables('vmExtensionTypeHandlerVersion')],"autoUpgradeMinorVersion": true},"outputs": {"policy": {"type": "string","value": [concat('Enabled extension for VM',"\",parameters('vmName'))]},"parameters": {"vmName": ["\",parameters('vmName')]}},"id": /providers/Microsoft.Authorization/policyDefinitions/1ca29e41-34ec-4e70-aba9-6248aca18c31","type": "Microsoft.Authorization/policyDefinitions","name": "1ca29e41-34ec-4e70-aba9-6248aca18c31"},"properties": {"displayName": "Microsoft Managed Control 1656 - Secure Name / Address Resolution Service (Authoritative Source)","policyType": "Static","mode": "Indexed","description": "Microsoft implements this System and Communications Protection control","metadata": {"version": "1.0.0","category": "Regulatory Compliance","additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1656"},"policyRule": {"if": {"allOf": [{"field": "type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value": false},"equals": true]},"then": {"effect": audit"},"id": /providers/Microsoft.Authorization/policyDefinitions/1cb067d5-c8b5-4113-a7ee-0a49363924b","type": "Microsoft.Authorization/policyDefinitions","name": "1cb067d5-c8b5-4113-a7ee-0a49363924b"},"properties": {"displayName": "Microsoft Managed Control 1592 - External Information System Services | Consistent Interests Of Consumers And Providers","policyType": "Static","mode": "Indexed","description": "Microsoft implements this System and Services Acquisition control","metadata": {"version": "1.0.0","category": "Regulatory Compliance","additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1592"},"policyRule": {"if": {"allOf": [{"field": "type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value": false},"equals": true]},"then": {"effect": audit"},"id": /providers/Microsoft.Authorization/policyDefinitions/1d01ba6c-289f-42fd-a408-494b355b6222","type": "Microsoft.Authorization/policyDefinitions","name": "1d01ba6c-289f-42fd-a408-494b355b6222"},"properties": {"displayName": "Microsoft Managed Control 1088 - Security Awareness And Training Policy And Procedures","policyType": "Static","mode": "Indexed","description": "Microsoft implements this Awareness and Training control","metadata": {"version": "1.0.0","category": "Regulatory Compliance","additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1088"},"policyRule": {"if": {"allOf": [{"field": "type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value": false},"equals": true]},"then": {"effect": audit"},"id": /providers/Microsoft.Authorization/policyDefinitions/1d50f99d-1356-49e0-934a-
Managed Control 1538 - Security Categorization, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control","metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1538" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/1d7658b2-e827-49c3-a2ae-6d2bd0b45874" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "1d7658b2-e827-49c3-a2ae-6d2bd0b45874" }, {"properties": {"displayName": "Virtual machines should be migrated to new Azure Resource Manager resources", "policyType": "BuiltIn", "mode": "All", "description": "Use new Azure Resource Manager for your virtual machines to provide security enhancements such as: stronger access control (RBAC), better auditing, Azure Resource Manager based deployment and governance, access to managed identities, access to key vault for secrets, Azure AD-based authentication and support for tags and resource groups for easier security management" }, "metadata": {"version": "1.0.0", "category": "Compute" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match" }, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit" } }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.ClassicCompute/virtualMachines", "Microsoft.Compute/virtualMachines"]}, {"value": false, "equals": true}]}, "then": {"effect": parameters(effect) } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/1d84d5fb-01f6-4d12-ba4f-4a26081d403d" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "1d84d5fb-01f6-4d12-ba4f-4a26081d403d" }, {"properties": {"displayName": "Microsoft Managed Control 1298 - Identification And Authentication Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1298" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/1dc784b5-4895-4d27-9d40-a06b032bd1ee" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "1dc784b5-4895-4d27-9d40-a06b032bd1ee" }, {"properties": {"displayName": ["Deprecated": "Audit API Applications that are not using latest supported .NET Framework", "policyType": "BuiltIn", "mode": "All", "description": "Use the latest supported .NET Framework version for the latest security classes. Using older classes and types can make your application vulnerable." }, "metadata": {"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": ["Deprecated": "Effect", "description": "Enable or disable the execution of the policy" }}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists" } }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "microsoft.Web/sites"}, {"anyof": [{"field": "kind", "equals": "api"}, {"field": "kind", "equals": "apiApp"}]}, {"value": false, "equals": true}]}, "then": {"effect": parameters(effect) }, "details": {"type": "Microsoft.Security/complianceResults", "name": "UseLatestDotNet", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceSta
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Deploy prerequisites to audit Windows VMs configurations in "Security Options - Shutdown".
Shutdown". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

**Shutdown Allow System To Be Shut Down Without Having To Log On**

- **Type**: String
- **Metadata**: Display Name: Preview

- **Description**: Specifies whether a computer can be shut down when a user is not logged on. If this policy setting is enabled, the shutdown command is available on the Windows logon screen.
- **Default Value**: 0

**Shutdown Clear Virtual Memory Pagefile**

- **Type**: String
- **Metadata**: Display Name: Preview

- **Description**: Specifies whether the virtual memory pagefile is cleared when the system is shut down. When this policy setting is enabled, the system pagefile is cleared each time that the system shuts down properly. For systems with large amounts of RAM, this could result in substantial time needed to complete the shutdown.
- **Default Value**: 0

**Policy Rule**

- **If**: Any of
  - All of
    - **Field**: type, equals: Microsoft.Compute/virtualMachines
    - Any of
      - **Field**: Microsoft.Compute/imagePublisher, equals: "MicrosoftWindowsServer"
      - **Field**: Microsoft.Compute/imageSKU, notLike: "2008*"
    - All of
      - **Field**: Microsoft.Compute/imagePublisher, equals: "MicrosoftSQLServer"
      - **Field**: Microsoft.Compute/imageOffer, notLike: "SQL2008*"
      - **Field**: Microsoft.Compute/imagePublisher, equals: "microsoft-dsvm"
      - **Field**: Microsoft.Compute/imageOffer, equals: "dsvm-windows"
  - All of
    - **Field**: Microsoft.Compute/imagePublisher, equals: "microsoft-ads"
  - All of
    - **Field**: Microsoft.Compute/imagePublisher, equals: "batch"
    - **Field**: Microsoft.Compute/imageOffer, equals: "rendering-windows2016"
    - **Field**: Microsoft.Compute/imagePublisher, equals: "center-for-internet-security-inc"
    - **Field**: Microsoft.Compute/imageOffer, like: "cis-windows-server-201*
    - **Field**: Microsoft.Compute/imagePublisher, equals: "pivotal"
    - **Field**: Microsoft.Compute/imageOffer, like: "bosh-windows-server-*"
    - **Field**: Microsoft.Compute/imagePublisher, equals: "cloud-infrastructure-services"
    - **Field**: Microsoft.Compute/imageOffer, like: "ad*"
  - Any of
    - **Field**: Microsoft.Compute/imageSKU, exists: false
    - **Field**: Microsoft.Compute/imageSKU, notLike: "2008*
    - **Field**: Microsoft.Compute/imageOffer, notLike: "SQL2008*"
  - **Field**: Microsoft.HybridCompute/imageOffer, equals: "Microsoft.HybridCompute/machines"
    - **Field**: Microsoft.HybridCompute/imageOffer, like: "windows*
    - **Field**: Microsoft.HybridCompute/imageOffer, equals: "Microsoft.HybridCompute/machines"
    - **Field**: Microsoft.HybridCompute/imageOffer, like: "windows*
    - Then: Effect: deployIfNotExists
    - Details: ["roleDefinitionIds": ["providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"]]

- **Then**: Effect: deployIfNotExists

- **Details**: ["roleDefinitionIds": ["providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"]]

- **Type**: Microsoft.GuestConfiguration/guestConfigurationAssignments
- **Name**: AzureBaseline_SecurityOptionsShutdown
- **Existence Condition**: ["field": Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash, equals: "base6d44 concat"="Shutdown:
  Allow system to be shut down without having to log on;ExpectedValue", =", 
  parameters(ShutdownAllowSystemToBeShutDownWithoutHavingToLogOn), ", 
  Shutdown: Clear virtual memory pagefile;ExpectedValue", =", 

Open Source Used In SDWan 20.6.1 17696
Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {
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  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1616"}
},

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    }, {
      "value": false, "equals": true
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  },
  "then": {
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  "metadata": {
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        "value": false, "equals": true
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    "policyType": "BuiltIn", "mode": "All", "description": "Azure security center has discovered that some of your virtual machines are running web applications, and the NSGs associated to these virtual machines are overly permissive with regards to the web application ports",
    "metadata": {
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      "deprecated": true
    },
    "parameters": {
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        "type": "String",
        "metadata": {
          "displayName": "[Deprecated]: Effect",
          "description": "Enable or disable the execution of the policy"
        }
      }
    }
  }
},

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  "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control",
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        "value": false, "equals": true
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      "existenceCondition": {
        "field": "Microsoft.Security/complianceResults/resourceStatus",
        "in": ["OffByPolicy", "Healthy"]
      }
    },
    "id": "/providers/Microsoft.Authorization/policyDefinitions/201ea587-7c90-41c3-910f-c280ae01cf6d",
    "properties": {
      "displayName": "Microsoft Managed Control 1181 - Baseline Configuration | Retention Of Previous Configurations"
    }
  }
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      }, {
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"name": "21839937-d241-4fa5-95c6-b669253d9ab9",
"properties": {
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}
Managed Control 1596 - Developer Configuration

Policy on Open Source Used In SDWan

This policy should only be used along with its corresponding deploy policy in an initiative.

This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Audit". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Show audit results from Windows VMs configurations in "Security Options - Audit", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative.

This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Audit".

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1426 - Media Protection Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Media Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1426" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true ] }, then: { "effect": "audit" } } }, "id": "providers/Microsoft.Authorization/policyDefinitions/21f639bc-f42b-46b1-8f40-7a2a389c291a", "name": "Microsoft.Authorization/policyDefinitions", "name": "21f639bc-f42b-46b1-8f40-7a2a389c291a", { "properties": { "displayName": "[Deprecated]: Audit API Apps that are not using custom domains", "policyType": "BuiltIn", "mode": "All", "description": "Use of custom domains protects a API app from common attacks such as phishing and other DNS-related attacks. " metadata": { "version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true }, "parameters": { "effect": "[parameters(''effect'')]", "details": { "type": "Microsoft.Security/complianceResults", "name": "UsedCustomDomains", "existenceCondition": { "field": "Microsoft.Security/complianceResults/resourceStatus", "in": [ "OffByPolicy", "Healthy" ] } } } } }, "id": "providers/Microsoft.Authorization/policyDefinitions/224da9fe-0d38-4e79-adb3-0a6e2af942ac", "name": "Microsoft.Authorization/policyDefinitions", "name": "224da9fe-0d38-4e79-adb3-0a6e2af942ac", { "properties": { "displayName": "Microsoft Managed Control 1399 - Controlled Maintenance", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1399" }, "policyRule": { "if": { "allOf": [ { "field": "type", equals": "microsoft.Web/sites" }, { "anyOf": [{ "field": "kind", equals": "api" }, { "field": "kind", equals": "apiApp" }] } ] }, then: { "effect": [ "parameters(''effect'')" ] }, "details": { "type": "Microsoft.Security/complianceResults", "name": "UsedCustomDomains", "existenceCondition": { "field": "Microsoft.Security/complianceResults/resourceStatus", "in": [ "OffByPolicy", "Healthy"] } } } } }, "id": "providers/Microsoft.Authorization/policyDefinitions/2256e638-eb23-480f-9e15-6cf1af0a76b3", "name": "Microsoft.Authorization/policyDefinitions", "name": "2256e638-eb23-480f-9e15-6cf1af0a76b3", { "properties": { "displayName": "Microsoft Managed Control 1221 - Least Functionality | Authorized Software / Whitelisting", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1221" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true ] }, then: { "effect": "audit" } } } }, "id": "providers/Microsoft.Authorization/policyDefinitions/22589a07-0007-486a-86ca-95355081ae2a", "name": "Microsoft.Authorization/policyDefinitions", "name": "22589a07-0007-486a-86ca-95355081ae2a", { "properties": { "displayName": "[Preview]: Show audit results from Windows VMs configurations in "System Audit Policies - Account Management"", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Account Management". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": { "version": "1.0.0-preview", "category": "Guest Configuration", "preview": true }, "policyRule": { "if": { "anyOf": [{ "allOf": [{ "field": "type", "equals": "Microsoft.Comput" }] } ] } } } } },
Open Source Used In SDWan

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1. **Microsoft Dynamics AX**
   - **imagePublisher**: Microsoft
   - **imageOffer**: Windows

2. **Microsoft Sharepoint**
   - **imagePublisher**: Microsoft
   - **imageOffer**: Windows

3. **Microsoft Visual Studio**
   - **imagePublisher**: Microsoft
   - **imageOffer**: Windows

4. **Microsoft Windows Desktop**
   - **imagePublisher**: Microsoft
   - **imageOffer**: Windows

5. **Microsoft Windows Server HPC Pack**
   - **imagePublisher**: Microsoft
   - **imageOffer**: HPC

6. **Microsoft SQL Server**
   - **imagePublisher**: Microsoft
   - **imageOffer**: Windows

7. **microsoft-dsvm**
   - **imagePublisher**: Microsoft
   - **imageOffer**: dsvm-windows

8. **microsoft-ads**
   - **imagePublisher**: Microsoft
   - **imageOffer**: ads

9. **batch**
   - **imagePublisher**: Microsoft
   - **imageOffer**: batch

10. **rendering-windows2016**
    - **imagePublisher**: Microsoft
    - **imageOffer**: rendering

11. **cis-windows-server-201**
    - **imagePublisher**: Microsoft
    - **imageOffer**: cis

12. **dsvm-windows**
    - **imagePublisher**: Microsoft
    - **imageOffer**: dsvm

13. **standard-data-science-vm**
    - **imagePublisher**: Microsoft
    - **imageOffer**: data-science

14. **windows-data-science-vm**
    - **imagePublisher**: Microsoft
    - **imageOffer**: data-science

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**Policy Definition: Management ports should be closed on your virtual machines**

- **displayName**: Management ports should be closed on your virtual machines
- **policyType**: BuiltIn
- **mode**: All
- **description**: Open remote management ports are exposing your VM to a high level of risk from Internet-based attacks. These attacks attempt to brute force credentials to gain admin access to the machine.
- **metadata**: version: 1.0.0, category: Security Center
- **parameters**: effect: AuditIfNotExists, description: Enable or disable the execution of the policy
- **allowedValues**: AuditIfNotExists, Disabled
- **policyRule**: if: type: Microsoft.Compute/imagePublisher, in: Windows

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**Policy Definition: Microsoft Managed Control 1493 - System Security Plan**

- **displayName**: Microsoft Managed Control 1493 - System Security Plan
- **policyType**: Static
- **mode**: Indexed
- **description**: Microsoft implements this Planning control
- **metadata**: version: 1.0.0, category: Regulatory Compliance

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Open Source Used In SDWan 20.6.1 17701
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- **20.6.1**

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**Only secure connections to your Azure Cache for Redis should be enabled**, policyType: "BuiltIn", mode: "Indexed", description: "Audit enabling of only connections via SSL to Azure Cache for Redis. Use of secure connections ensures authentication between the server and the service and protects data in transit from network layer attacks such as man-in-the-middle, eavesdropping, and session-hijacking.

- **[Preview]** Deploy prerequisites to audit Windows VMs that do not restrict the minimum password length to 14 characters. policyType: "BuiltIn", mode: "Indexed", description: "This policy creates a Guest Configuration assignment to audit Windows virtual machines that do not restrict the minimum password length to 14 characters. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit [https://aka.ms/gcpol](https://aka.ms/gcpol)."
...
Deploy Diagnostic Settings for Stream Analytics to Log Analytics workspace

The diagnostic settings for Stream Analytics to stream to a regional Log Analytics workspace when any Stream Analytics which is missing this diagnostic settings is created or updated.

- metadata:
  - "version": "1.0.0",
  - "category": "Monitoring",
  - "parameters": {
    "effect": 
    - "type": "String",
    - "defaultValue": "DeployIfNotExists"
  }

- metadata:
  - "displayName": "Effect",
  - "description": "Enable or disable the execution of the policy"

- allowedValues: ["DeployIfNotExists", "Disabled"]
- defaultValue: "DeployIfNotExists"
- profileName: {
  "type": "String",
  - "metadata": {
    "displayName": "Profile name",
    - "description": "The diagnostic settings profile name"
  }

- defaultValue: "setbypolicy_logAnalytics"
- logAnalytics: {
  "type": "String",
  - "metadata": {
    "displayName": "Log Analytics workspace",
    - "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID.
  }

- strongType: "omsWorkspace",
- assignPermissions: "true"
- metricsEnabled: {
  "type": "String",
  - "metadata": {
    "displayName": "Enable metrics",
    - "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False"
  }

- allowedValues: ["True", "False"]
- defaultValue: "False"
- logsEnabled: {
  "type": "String",
  - "metadata": {
    "displayName": "Enable logs",
    - "description": "Whether to enable logs stream to the Log Analytics workspace - True or False"
  }

- allowedValues: ["True", "False"]
- defaultValue: "True"
- policyRule: {
  "if": {
    "field": "type",
    "equals": "Microsoft.StreamAnalytics/streamingjobs"
  },
  "then": {
    "effect": [parameters("effect")]
  }

- "contents": {
  "field": "type",
  - "equals": "Microsoft.ServiceBus/namespaces"

- details: {
  "type": "Microsoft.ServiceBus/namespaces/virtualNetworkRules",
  - "existenceCondition": {
    "field": "Microsoft.ServiceBus/namespaces/virtualNetworkRules/virtualNetworkSubnetId",
    - "exists": "true"
  }

- id: "/providers/Microsoft.Authorization/policyDefinitions/235359c5-7c52-4b82-9055-01c75c9f960e",
- type: "Microsoft.Authorization/policyDefinitions",
- name: "235359c5-7c52-4b82-9055-01c75c9f960e",
- properties: {
  "displayName": "Deploy Log Analytics workspace",
  - "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID.

- strongType: "omsWorkspace",
- assignPermissions: "true"
- metricsEnabled: {
  "type": "String",
  - "metadata": {
    "displayName": "Enable metrics",
    - "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False"
  }

- allowedValues: ["True", "False"]
- defaultValue: "False"
- logsEnabled: {
  "type": "String",
  - "metadata": {
    "displayName": "Enable logs",
    - "description": "Whether to enable logs stream to the Log Analytics workspace - True or False"
  }

- allowedValues: ["True", "False"]
- defaultValue: "True"
- policyRule: {
  "if": {
    "field": "type",
    "equals": "Microsoft.StreamAnalytics/streamingjobs"
  },
  "then": {
    "effect": [parameters("effect")]
  }

- "contents": {
  "field": "type",
  - "equals": "Microsoft.ServiceBus/namespaces"

- details: {
  "type": "Microsoft.ServiceBus/namespaces/virtualNetworkRules",
  - "existenceCondition": {
    "field": "Microsoft.ServiceBus/namespaces/virtualNetworkRules/virtualNetworkSubnetId",
    - "exists": "true"
  }

- id: "/providers/Microsoft.Authorization/policyDefinitions/235359c5-7c52-4b82-9055-01c75c9f960e",
- type: "Microsoft.Authorization/policyDefinitions",
- name: "235359c5-7c52-4b82-9055-01c75c9f960e",
- properties: {
  "displayName": "Deploy Log Analytics workspace",
  - "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID.

- strongType: "omsWorkspace",
- assignPermissions: "true"
- metricsEnabled: {
  "type": "String",
  - "metadata": {
    "displayName": "Enable metrics",
    - "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False"
  }

- allowedValues: ["True", "False"]
- defaultValue: "False"
- logsEnabled: {
  "type": "String",
  - "metadata": {
    "displayName": "Enable logs",
    - "description": "Whether to enable logs stream to the Log Analytics workspace - True or False"
  }

- allowedValues: ["True", "False"]
- defaultValue: "True"
- policyRule: {
  "if": {
    "field": "type",
    "equals": "Microsoft.StreamAnalytics/streamingjobs"
  },
  "then": {
    "effect": [parameters("effect")]
  }

- "contents": {
  "field": "type",
  - "equals": "Microsoft.ServiceBus/namespaces"

- details: {
  "type": "Microsoft.ServiceBus/namespaces/virtualNetworkRules",
  - "existenceCondition": {
    "field": "Microsoft.ServiceBus/namespaces/virtualNetworkRules/virtualNetworkSubnetId",
    - "exists": "true"
  }

- id: "/providers/Microsoft.Authorization/policyDefinitions/235359c5-7c52-4b82-9055-01c75c9f960e",
- type: "Microsoft.Authorization/policyDefinitions",
- name: "235359c5-7c52-4b82-9055-01c75c9f960e",
- properties: {
  "displayName": "Deploy Log Analytics workspace",
  - "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID.

- strongType: "omsWorkspace",
- assignPermissions: "true"
- metricsEnabled: {
  "type": "String",
  - "metadata": {
    "displayName": "Enable metrics",
    - "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False"
  }

- allowedValues: ["True", "False"]
- defaultValue: "False"
- logsEnabled: {
  "type": "String",
  - "metadata": {
    "displayName": "Enable logs",
    - "description": "Whether to enable logs stream to the Log Analytics workspace - True or False"
  }

- allowedValues: ["True", "False"]
- defaultValue: "True"
Managed Control 1268 - Alternate Storage Site

Implementation details:

- **Policy Description:**
  - Microsoft implements this Contingency Planning control.
  - Description: Microsoft implements this Contingency Planning control.

- **Metadata Details:**
  - Category: Regulatory Compliance
  - AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1268
  - PolicyRule:
    - Policy Type: Static
    - Mode: Indexed
    - Description: Microsoft implements this Contingency Planning control.
    - Metadata:
      - Version: 1.0.0
      - Category: Regulatory Compliance
      - AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1268
      - PolicyRule:
        - AllOf:
          - Field: type
            - In: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
          - Value: false
          - Equals: true
        - Then:
          - Effect: audit

- **Policy Targets:**
  - Type: Microsoft.Authorization/policyDefinitions
  - Name: 237e0f7e-b0e8-4ec4-ad46-8c12eb66d673
  - Properties:
    - DisplayName: Microsoft

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Managed Control 1122 - Audit Review, Analysis, And Reporting | Permitted Actions

Implementation details:

- **Policy Description:**
  - Microsoft implements this Audit and Accountability control.
  - Description: Microsoft implements this Audit and Accountability control.

- **Metadata Details:**
  - Category: Regulatory Compliance
  - AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1122
  - PolicyRule:
    - Policy Type: Static
    - Mode: Indexed
    - Description: Microsoft implements this Audit and Accountability control.
    - Metadata:
      - Version: 1.0.0
      - Category: Regulatory Compliance
      - AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1122
      - PolicyRule:
        - AllOf:
          - Field: type
            - In: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
          - Value: false
          - Equals: true
        - Then:
          - Effect: audit

- **Policy Targets:**
  - Type: Microsoft.Authorization/policyDefinitions
  - Name: 23f6e984-3053-4dfc-ab48-543b764781f5
  - Properties:
    - DisplayName: Microsoft

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Managed Control 1231 - Configuration Management Plan

Implementation details:

- **Policy Description:**
  - Microsoft implements this Configuration Management control.
  - Description: Microsoft implements this Configuration Management control.

- **Metadata Details:**
  - Category: Regulatory Compliance
  - AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1231
  - PolicyRule:
    - Policy Type: Static
    - Mode: Indexed
    - Description: Microsoft implements this Configuration Management control.
    - Metadata:
      - Version: 1.0.0
      - Category: Regulatory Compliance
      - AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1231
      - PolicyRule:
        - AllOf:
          - Field: type
            - In: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
          - Value: false
          - Equals: true
        - Then:
          - Effect: audit

- **Policy Targets:**
  - Type: Microsoft.Authorization/policyDefinitions
  - Name: 243ec95e-800c-49d4-ba52-1fdd9f6b8b57
  - Properties:
    - DisplayName: Microsoft

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Managed Control 1082 - Information Sharing

Implementation details:

- **Policy Description:**
  - Microsoft implements this Access Control control.
  - Description: Microsoft implements this Access Control control.

- **Metadata Details:**
  - Category: Regulatory Compliance
  - AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1082
  - PolicyRule:
    - Policy Type: Static
    - Mode: Indexed
    - Description: Microsoft implements this Access Control control.
    - Metadata:
      - Version: 1.0.0
      - Category: Regulatory Compliance
      - AdditionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1082
      - PolicyRule:
        - AllOf:
          - Field: type
            - In: [Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]
          - Value: false
          - Equals: true
        - Then:
          - Effect: audit

- **Policy Targets:**
  - Type: Microsoft.Authorization/policyDefinitions
  - Name: 24d480ef-11a0-4b1b-8e70-4e023bf2be23
  - Properties:
    - DisplayName: [Preview]

- **Policy Description:**
  - Show audit results from Windows VMs that do not have a maximum password age of 70 days.
  - Policy Type: BuiltIn
  - Mode: All
  - Description: This policy should only be used along with its corresponding deploy policy in an initiative.
  - Definition allows Azure Policy to process the results of auditing Windows
virtual machines that do not have a maximum password age of 70 days. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
The existence and health of an endpoint protection solution on your virtual machines scale sets, to protect them from threats and vulnerabilities.

Microsoft Managed Control 1649 - Collaborative Computing Devices

Microsoft implements this System and Communications Protection control.

Metric alert rules should be configured on Batch accounts.

The metric name that an alert rule must be enabled on.

Managed Control 1396 - Controlled Maintenance

This Maintenance control.

Managed Control 1396 - Controlled Maintenance

This Maintenance control.
Managed Control 1074 - Access Control For Mobile

Managed Control 1527 - Access Agreements

Managed Control 1527 - Access Agreements

Policy for deploying Microsoft IaaS Antimalware extension for Windows Server.
delimited list of process names to exclude from scanning")}, "RealtimeProtectionEnabled":{"type":"string","defaultValue":"true","metadata":{"description":"Indicates whether or not real time protection is enabled (default is true)"}},{"ScheduledScanSettingsIsEnabled":{"type":"string","defaultValue":"false","metadata":{"description":"Indicates whether or not custom scheduled scan settings are enabled (default is false)"}},{"ScheduledScanSettingsScanType":{"type":"string","defaultValue":"Quick","metadata":{"description":"Indicates whether scheduled scan setting type is set to Quick or Full (default is Quick)"}},{"ScheduledScanSettingsDay":{"type":"string","defaultValue":"7","metadata":{"description":"Day of the week for scheduled scan (1-Sunday, 2-Monday, ..., 7-Saturday)"}},{"ScheduledScanSettingsTime":{"type":"string","defaultValue":"120","metadata":{"description":"When to perform the scheduled scan, measured in minutes from midnight (0-1440). For example: 0 = 12AM, 60 = 1AM, 120 = 2AM."}},{"resources":{"name":concat(parameters('vmName' ),'/IaaSAntimalware' ),"type":"Microsoft.Compute/virtualMachines/extensions","location":parameters('location' ),"apiVersion":"2017-12-01","properties":{"publisher":"Microsoft.Azure.Security","type":"IaaSAntimalware","typeHandlerVersion":"1.3","autoUpgradeMinorVersion":"true","settings":{"AntimalwareEnabled":true, "RealtimeProtectionEnabled":parameters( 'RealtimeProtectionEnabled' ),"ScheduledScanSettings":{"isEnabled":parameters( 'ScheduledScanSettingsIsEnabled' ),"day":parameters( 'ScheduledScanSettingsDay' ),"time":parameters( 'ScheduledScanSettingsTime' ),"scanType":parameters( 'ScheduledScanSettingsScanType' ),"Exclusions":{"Extensions":parameters( 'ExclusionsExtensions' ),"Paths":parameters( 'ExclusionsPaths' ),"Processes":parameters( 'ExclusionsProcesses' )},"RealtimeProtectionEnabled":true, "ScheduledScanSettingsIsEnabled":false, "value":true"}},{"parameters":{"vmName":{"value":field( 'name' )},"location":{"value":field( 'location' )},"RealtimeProtectionEnabled":true, "ScheduledScanSettingsIsEnabled":false, "value":true"},"id":/providers/Microsoft.Authorization/policyDefinitions/2835b622-407b-4114-9198-6f7064cbe0dc,"type":"Microsoft.Authorization/policyDefinitions","name":"2835b622-407b-4114-9198-6f7064cbe0dc"},{"properties":{"displayName":"Microsoft Managed Control 1342 - Authenticator Management | Hardware Token-Based Authentication","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control"},"id":/providers/Microsoft.Authorization/policyDefinitions/2835b622-407b-4114-9198-6f7064cbe0dc,"type":"Microsoft.Authorization/policyDefinitions","name":"2835b622-407b-4114-9198-6f7064cbe0dc"},{"properties":{"displayName":"Microsoft Managed Control 1436 - Media Transport","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Media Protection control"},"id":/providers/Microsoft.Authorization/policyDefinitions/2835b622-407b-4114-9198-6f7064cbe0dc,"type":"Microsoft.Authorization/policyDefinitions","name":"2835b622-407b-4114-9198-6f7064cbe0dc"},{"properties":{"displayName":"Microsoft Managed Control 1224 - Information System Component Inventory | Updates During..."},"id":/providers/Microsoft.Authorization/policyDefinitions/2835b622-407b-4114-9198-6f7064cbe0dc,"type":"Microsoft.Authorization/policyDefinitions","name":"2835b622-407b-4114-9198-6f7064cbe0dc"}
Microsoft implements this Security Assessment and Authorization control, "metadata":{"version":1.0.0,"category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1148"},"policyRule":{"if":{"allOf":[]},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/28e62650-c7c2-4786-bdfa-17edc1673902","name":"Microsoft.Authorization/policyDefinitions","displayName":"Microsoft Managed Control 1418 - Nonlocal Maintenance | Comparable Security / Sanitization","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Maintenance control","metadata":{"version":1.0.0,"category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1418"},"policyRule":{"if":{"allOf":[]},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/28e633fd-284e-4ea7-88b4-02ca157ed713","name":"Microsoft.Authorization/policyDefinitions","displayName":"Microsoft Managed Control 1634 - Boundary Protection | Prevent Unauthorized Exfiltration","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":1.0.0,"category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1634"},"policyRule":{"if":{"allOf":[]},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/292a7c44-37fa-4c68-af7c-9d836955ded2","name":"Microsoft.Authorization/policyDefinitions","displayName":"[Preview]: Show audit results from Windows VMs configurations in "Security Options - User Account Control"","policyType":"BuiltIn","mode":"All","description":"This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - User Account Control". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":1.0.0-Preview","category":Guest Configuration,"preview":true},"policyRule":{"if":{"anyOf":[]},"then":{}}}}
a tag and its value to resources", "policyType": "BuiltIn", "mode": "Indexed", "description": "Appends the specified tag and value when any resource which is missing this tag is created or updated. Does not modify the tags of resources created before this policy was applied until those resources are changed. Does not apply to resource groups. New "modify" effect policies are available that support remediation of tags on existing resources (see
https://aka.ms/modifydoc).", "metadata": {"version": "1.0.1", "category": "Tags"}, "parameters": {
"tagName": {
"type": "String", "metadata": {"displayName": "Tag Name", "description": "Name of the tag, such as "environment""}
},
"tagValue": {
"type": "String", "metadata": {"displayName": "Tag Value", "description": "Value of the tag, such as "production""}
}
},
"policyRule": {
"if": {
"field": ["concat(tags["tagName"], "]")],
"exists": "false"
},
"then": {
"effect": "append",
"details": {
"field": ["concat(tags["parameters("tagName"), "]")]"],
"value": "[parameters("tagValue")]
}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/2a0e14a6-b0a6-4fab-991a-187a4f81c498",
"properties": {"displayName": "Microsoft Managed Control 1219 - Least Functionality | Authorized Software / Whitelisting", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1219",
"policyRule": {
"if": {
"allOf": {
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}
},
"value": "false",
"equals": "true"
},
"then": {
"effect": "audit"
}
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/2a39ac75-75-622b-4c88-9a3f-
Open Source Used In SDWan 20.6.1

Managed Control 1274 - Alternate Processing Site

Managed Control 1603 - Developer Security Testing And Evaluation

Managed Control 1434 - Media Transport

Managed Control 1343 - Authenticator Management | Expiration Of Cached Authenticators
Microsoft Managed Control 1388 - Information Spillage

Response, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1388" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/2c7c575a-d4c5-4f6f-bd49-dee97a8cba55" }, "properties": {"displayName": "Microsoft Managed Control 1388 - Information Spillage" }

Microsoft Managed Control 1344 - Authenticator Feedback

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1344" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/2c895fe7-2d8e-43a2-838c-3a533a5b355e" }, "properties": {"displayName": "Microsoft Managed Control 1344 - Authenticator Feedback" }

SSH access from the Internet should be blocked


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Microsoft Network Security Groups:
- `securityRules/destinationPortRanges[*]`
- `securityRules/sourceAddressPrefix`
- `securityRules/sourceAddressPrefixes[*]`

Policy Definitions:
- `2c89a2e5-7285-40fe-afe0-ae8654b92f2b` (Unattached disks should be encrypted)
- `2cd0a426-b5f5-4fe0-9539-a6043cdbc6fa` (Microsoft Managed Control 1593 - External Information System Services | Processing, Storage, And Service Location)
- `2ce1ea7e-4038-4e53-82f4-63e8859333c1` (Microsoft Managed Control 1414 - Nonlocal Maintenance)
- `2c89a2e5-7285-40fe-afe0-ae8654b92f2b` (Microsoft Managed Control 1546 - Vulnerability Scanning)

Policy Rule:
- `if`:
  - `field`: `type`
  - `value`: `false`
  - `equals`: `true`
  - `or:
    - `notEquals`: `22`
    - `not:
      - `equals`: `*`
    - `not:
      - `notEquals`: `*`
      - `not:
        - `equals`: `Internet`
Open Source Used In SDWan

Managed Control 1679 - Malicious Code Protection

Managed Control 1068 - Wireless Access

Managed Control 1704 - Security Alerts, Advisories, And Directives

Managed Control 1679 - Malicious Code Protection

Managed Control 1068 - Wireless Access

Managed Control 1704 - Security Alerts, Advisories, And Directives
This definition allows Azure Policy to process the results of auditing Windows virtual machines that do not store passwords using reversible encryption.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol. For Guest Configuration policies that are specific to Linux VMs, please visit https://aka.ms/gcpol-linux.
Managed Control 1000 - Access Control Policy And Procedures

Managed Control 1519 - Personnel Termination

Network traffic data collection agent should be installed on Windows virtual machines

Effect: "AuditIfNotExists", "Disabled"

defaultValue: "AuditIfNotExists"

allowedValues: ["AuditIfNotExists", "Disabled"]

Microsoft.Compute/imagePublisher: "Microsoft"

Microsoft.Compute/imageOffer: "WindowsServer"

Microsoft.Compute/imageSKU: "2008-R2-SP1"

Microsoft.Compute/imagePublisher: "MicrosoftWindowsServer"

Microsoft.Compute/imageOffer: "WindowsServerSemiAnnual"

Microsoft.Compute/imageSKU: "Datacenter-Core-1709-with-Containers-smalldisk"

Microsoft.Compute/imagePublisher: "Microsoft"

Microsoft.Compute/imageOffer: "WindowsServerHPCPack"
  {"allOf" : [ {"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftRServer"}, 
  {"field": "Microsoft.Compute/imageOffer", "equals": "MLServer-*WS2016"}, 
  {"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"}, 
  {"field": "Microsoft.Compute/imageOffer", "equals": "windows-data-science-vm"}, 
  {"allOf" : [ {"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsDesktop"}, 
  {"field": "Microsoft.Compute/imageOffer", "equals": "Microsoft-Window"}, 
  {"field": "Microsoft.Compute/imageOffer", "equals": "Dynamics"}, 
  {"field": "Microsoft.Compute/imageSKU", "equals": "Pre-Req-A7-Onebox-U8"}, 
  {"allOf" : [ {"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftVisualStudio"}, 
  {"field": "Microsoft.Compute/imageOffer", "in": ["VisualStudio", "Windows"]}, 
  {"allOf" : [ {"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftDynamicsAX"}, 
  {"field": "Microsoft.Compute/imageOffer", "equals": "Dynamics"}, 
  {"field": "Microsoft.Compute/imageSKU", "equals": "Pre-Req-A7-Onebox-U8"}]}]}], 
  then : {"effect": "[parameters('effect')]", 
  "details": {"type": "Microsoft.Compute/virtualMachines/extensions", "existenceCondition": {"allOf" : [ {"field": "Microsoft.Compute/virtualMachines/extensions/type", "equals": "DependencyAgentWindows"}, 
  {"field": "Microsoft.Compute/virtualMachines/extensions/provisioningState", "equals": "Succeeded"}]}}}, 
  id : /providers/Microsoft.Authorization/policyDefinitions/2f2ee1de-44aa-4762-b6bd-0893fc3f06d", 
  type : "Microsoft.Authorization/policyDefinitions", 
  name : "2f2ee1de-44aa-4762-b6bd-0893fc3f06d"}, 
  {"properties" : {"displayName": "Microsoft Managed Control 1144 - Security Assessments", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", 
  "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1144"}, 
  "policyRule": {"if": {"allOf" : [ {"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, 
  {"value": false, "equals": true}]}, 
  "then": {"effect": "audit"}}}, 
  id : /providers/Microsoft.Authorization/policyDefinitions/2fa15ff1-a693-4ee4-b094-324818dc9a51", 
  type : "Microsoft.Authorization/policyDefinitions", 
  name : "2fa15ff1-a693-4ee4-b094-324818dc9a51"}, 
  {"properties": {"displayName": "Microsoft Managed Control 1090 - Security Awareness Training", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Awareness and Training control", 
  "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1090"}, 
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  "then": {"effect": "audit"}}}, 
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  type : "Microsoft.Authorization/policyDefinitions", 
  name : "2fa740e5-cbc7-4d10-8686-d1b8f826652b1"}, 
  {"properties": {"displayName": "[Deprecated]: Web Application should only be accessible over HTTPS", "policyType": "BuiltIn", "mode": "All", "description": "Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks.", 
  "metadata": {"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true}, 
  "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}}, 
  "policyRule": {"if": {"allOf" : [ {"field": "type", "equals": "microsoft.Web/sites"}, 
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  {"field": "kind", "equals": "WebApp"}, 
  {"field": "kind", "equals": "app,linux"}, 
  {"field": "kind", "equals": "app,linux.container"}]}}}], 
  "the
Show audit results from Windows VMs configurations in "Security Options - Network Access". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Network Access". For more information on Guest Configuration policies, please visit https://aka.ms/gepol.
https://aka.ms/gcpol

"metadata": {
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"parameters": {
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"type": "String",
"metadata": {
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"description": "The fully qualified domain name (FQDN) that the Windows VMs should be joined to"
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"policyRule": {
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"field": "Microsoft.Compute/imageOffer",
"notLike": "SQL2008*"
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"equals": "dsvm-windows"
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"like": "Windows*"
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"name": [concat(parameters(vmName))]
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parameters("configurationName")],
"location": [parameters("location")],
"properties": ["guestConfiguration": {
"name": [parameters("configurationName")],
"version": "1.*",
"configurationParameter": ["name": "[DomainMembership]WindowsDomainMembership;DomainName",
"value": ["parameters("DomainName")"]]
}],
"condition": [equals(toLower(parameters(type)))]
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"type": "Microsoft.Compute/virtualMachines"
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"apiVersion": "2018-11-20"
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{ "value": false, "equals": true } ] }, 
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"Microsoft Managed Control 1698 - Information System Monitoring | Individuals Posing Greater Risk", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", 
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"Audit Log Analytics Agent Deployment - VM Image (OS) unlisted", "policyType": "BuiltIn", "mode": "Indexed", "description": "Reports VMs as non-compliant if the VM Image (OS) is not in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated.", "metadata": 
{ "version": "1.0.0", "category": "Monitoring", "preview": true }, "parameters": 
{ "listOfImageIdToInclude_windows": 
{ "type": "Array", "metadata": 
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"description": 
"Example value:

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Optional: List of VM images that have supported Linux OS to add to scope**, "description":**Example value:

```json
"subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage","defaultValue":[]},"listOfImageIdToInclude_linux":{"type":"Array","metadata":{"displayName":"[Preview]: Optional: List of VM images that have supported Linux OS to add to scope"}},"defaultValue":[]}}},"policyRule":{"if":{"allOf":[]}}} 
```

Managed Control 1587 - External Information System Services. "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control."

Managed Control 1333 - Authenticator Management | Pki-Based Authentication. "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control."

Deploy prerequisites to audit Windows VMs on which the specified services are not installed and "Running". "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines on which the specified services are not installed and "Running". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol. 

Service names (supports wildcards), "description": "A semicolon-separated list of the names of the services that should be installed and "Running". e.g. "WinRm;Wi*"

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Managed Control 1445 - Physical And Environmental Protection Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {
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  "category": "Regulatory Compliance",
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          "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
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    },
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  }
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  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "32d07d59-2716-4972-b37b-214a67ac4a37",
  "properties": {
    "displayName": "MySQL server should use a virtual network service endpoint",
    "policyType": "BuiltIn",
    "mode": "Indexed",
    "description": "This policy audits MySQL servers not configured to use a virtual network service endpoint. For more details, visit https://aka.ms/mysqlvnet."
  }
},
  "id": "/providers/Microsoft.Authorization/policyDefinitions/3375856c-3824-4e0e-ae6a-79e011dd4c47",
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "3375856c-3824-4e0e-ae6a-79e011dd4c47",
  "properties": {
    "displayName": "Microsoft Managed Control 1282 - Telecommunications Services | Single Points Of Failure",
    "policyType": "Static",
    "mode": "Indexed",
    "description": "Microsoft implements this Contingency Planning control",
    "metadata": {
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      "category": "Regulatory Compliance",
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  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "34042a97-ec6d-4263-93d2-8c1c46823b2a",
  "properties": {
    "displayName": "[Preview]: Deploy prerequisites to audit Linux VMs that have accounts without passwords",
    "policyType": "BuiltIn",
    "mode": "Indexed",
    "description": "This policy creates a Guest Configuration assignment to audit Linux virtual machines"
that have accounts without passwords. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
meters("vmName"),
  "[Microsoft.GuestConfiguration",
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    "dependsOn": "+[concat("Microsoft.Compute/virtualMachines",parameters("vmName")),"providers/Microsoft.GuestConfiguration/guestConfigurationAssignments",parameters("configurationName")]]]"
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  Managed Control 1151 - System Interconnections",
  "policyType": "+Static", 
  "mode": "+Indexed", 
  "description": "+Microsoft implements this Security Assessment and Authorization control",
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  Managed Control 1412 - Nonlocal Maintenance",
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  "description": "+Microsoft implements this Access Control control",
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    "category": "+Regulatory Compliance",
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      {"effect": "+audit"}}}],
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  "type": "+Microsoft.Authorization/policyDefinitions"},
"name": "+3492d949-0dbb-4589-88b3-7b59601cc764",
"properties": {
  "displayName": "+Microsoft
  Managed Control 1475 - Emergency Lighting",
  "policyType": "+Static", 
  "mode": "+Indexed", 
  "description": "+Microsoft implements this Access Control control",
  "metadata": {
    "version": "+1.0.0",
    "category": "+Regulatory Compliance",
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  "type": "+Microsoft.Authorization/policyDefinitions"},
"name": "+34a63848-30cf-4081-937e-ce1a1c885501",
"properties": {
  "displayName": "+Microsoft
  Managed Control 1060 - Remote Access",
  "policyType": "+Static", 
  "mode": "+Indexed", 
  "description": "+Microsoft implements this Access Control control",
  "metadata": {
    "version": "+1.0.0",
    "category": "+Regulatory Compliance",
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  },
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    {"then": 
      {"effect": "+audit"}}]},
  "id": "+/providers/Microsoft.Authorization/policyDefinitions/34c81850-0dbb-4589-88b3-ce1a1c885501",
  "type": "+Microsoft.Authorization/policyDefinitions"},
"name": "+34c81850-0dbb-4589-88b3-ce1a1c885501",
"properties": {
  "displayName": "+Microsoft
  Managed Control 1060 - Remote Access"}
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ranges","metadata":{"version":1.1.0","category":"Storage"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"The effect determines what happens when the policy rule is evaluated to match"},"allowedValues":[]},"policyRule":{"if":{"allOf":[]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/34c877ad-507e-4c82-993e-3452a6ebad3c","type":"Microsoft.Authorization/policyDefinitions","name":"34c877ad-507e-4c82-993e-3452a6ebad3c"},{"properties":{"displayName":"Diagnostic logs in Logic Apps should be enabled","policyType":"BuiltIn","mode":"Indexed","description":"Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised","metadata":{"version":2.0.0,"category":"Logic Apps"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":[]},"requiredRetentionDays":"365"},"policyRule":{"if":{}},"id":"/providers/Microsoft.Authorization/policyDefinitions/34cb7e92-fe4c-4826-b51e-8cd203fa5d35","type":"Microsoft.Authorization/policyDefinitions","name":"34cb7e92-fe4c-4826-b51e-8cd203fa5d35"}}
Deploy prerequisites to audit Windows VMs that do not have a maximum password age of 70 days. This policy creates a Guest Configuration assignment to audit Windows virtual machines that do not have a maximum password age of 70 days. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
01/deploymentTemplate.json","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{"type":"string"},"configurationName":{"type":"string"}},"resources": [{"condition": [equals(toLower(parameters("type")), toLower("microsoft.hybridcompute/machines"))],"apiVersion":"2018-11-20","type":"Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments","name": [concat(parameters("vmName"), "/Microsoft.GuestConfiguration/", parameters("configurationName"))],"location": [parameters("location")],"properties": [{"guestConfiguration": ["name": [parameters("configurationName")],"version": ["1.*"]],"condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))],"apiVersion": "2019-07-01"},"type": "Microsoft.Compute/virtualMachines","identity": ["type": "SystemAssigned"],"name": [parameters("vmName")],"location": [parameters("location")],"condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))],"apiVersion": "2015-05-01-preview"],"name": [concat(parameters("vmName"), "/AzurePolicyforWindows")],"type": "Microsoft.Compute/virtualMachines/extensions","location": [parameters("location")],"properties": [{"publisher": "Microsoft.GuestConfiguration","type": "ConfigurationforWindows","typeHandlerVersion": "1.1","autoUpgradeMinorVersion": true,settings: [{}, protectedSettings: []],"dependsOn": [concat("Microsoft.Compute/virtualMachines/", parameters("vmName")), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/", parameters("configurationName")]]},"id": "/providers/Microsoft.Authorization/policyDefinitions/356a906e-05e5-4625-8729-90771e0ee934","type": "Microsoft.Authorization/policyDefinitions","name": "356a906e-05e5-4625-8729-90771e0ee934"],

"properties": [{"displayName": "CORS should not allow every resource to access your API App","policyType": "BuiltIn","mode": "Indexed","description": "Cross-Origin Resource Sharing (CORS) should not allow all domains to access your API app. Allow only required domains to interact with your API app.","metadata": ["version": "1.0.0"],"category": "App Service"},"parameters": {"effect": ["type": "String"],"metadata": ["displayName": "Effect","description": "Enable or disable the execution of the policy"],"allowedValues": ["AuditIfNotExists","Disabled"],"defaultValue": "AuditIfNotExists"]},"policyRule": {"if": [allOf: ["field": "type","equals": "Microsoft.Web/sites"],["field": "kind","like": "*api"]],"then": ["effect": [parameters("effect")],"details": ["type": "Microsoft.Web/sites/config","existenceCondition": ["field": "Microsoft.Web/sites/config/web.cors.allowedOrigins[]","notEquals": "*"]]],"id": "/providers/Microsoft.Authorization/policyDefinitions/s/358c20a6-39f9e-40e-97ff-c6ce485e2aaac","type": "Microsoft.Authorization/policyDefinitions","name": "358c20a6-39f9e-40e-97ff-c6ce485e2aaac"},

"properties": ["displayName": "CORS Managed Control 1659 - Architecture And Provisioning For Name / Address Resolution Service"],"policyType": "Static","mode": "Indexed","description": "Microsoft implements this System and Communications Protection control"},

"metadata": ["version": "1.0.0"],"category": "Regulatory Compliance"],"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1659"},"policyRule": {"if": [allOf: ["field": "type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]],"value": "false","equals": "true"],"then": ["effect": "audit"],"id": "/providers/Microsoft.Authorization/policyDefinitions/s/35a4102f-a778-4a2e-98c2-971056288df8","type": "Microsoft.Authorization/policyDefinitions","name": "35a4102f-a778-4a2e-98c2-971056288df8"}
Gateway subnets should not be configured with a network security group. This policy denies if a gateway subnet is configured with a network security group. Assigning a network security group to a gateway subnet will cause the gateway to stop functioning.

Policy 1043 - Least Privilege | Prohibit Non-Privileged Users From Executing Privileged Functions

This policy enables Advanced Threat Protection on Storage Accounts. It allows or disables the execution of the policy.

Policy 1313 - Identifier Management

This policy implements this Identification and Authentication control.
Managed Control 1630 - Boundary Protection | External Telecommunications Services', "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": 
{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1630"}, "policyRule": 
{"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, {"then": {"effect": "audit"}}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/3643717a-3897-4bfd-8530-c7c96b26b2a0", "type": "Microsoft.Authorization/policyDefinitions", "name": "3643717a-3897-4bfd-8530-c7c96b26b2a0", 
{"properties": 
{"displayName": "Automation account variables should be encrypted", "policyType": "BuiltIn", "mode": "All", "description": "It is important to enable encryption of Automation account variable assets when storing sensitive data", "metadata": 
{"version": "1.1.0", "category": "Automation"}, 
{"parameters": 
{"effect": {"type": "String", "metadata": 
{"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match"}, 
"allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit"}}, 
{"policyRule": 
{"if": [{"allOf": [{"field": "type", "equals": "Microsoft.Automation/automationAccounts/variables"}, {"notEquals": "true"}]}, {"then": {"effect": "[parameters('effect')]"}}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/3657f5a0-770e-44a3-b44e-9431bae9735", "type": "Microsoft.Authorization/policyDefinitions", "name": "3657f5a0-770e-44a3-b44e-9431bae9735", 
{"properties": 
{"displayName": "Microsoft Managed Control 1339 - Authenticator Management | Protection Of Authenticators", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": 
{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1339"}, "policyRule": 
{"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, {"then": {"effect": "audit"}}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/367ae386-db7f-4167-b672-984ff86277c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "367ae386-db7f-4167-b672-984ff86277c0", 
{"properties": 
{"displayName": "Microsoft Managed Control 1685 - Information System Monitoring", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": 
{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1685"}, "policyRule": 
{"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, {"then": {"effect": "audit"}}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/36b0ef30-366f-4b1b-8652-a3511df11f53", "type": "Microsoft.Authorization/policyDefinitions", "name": "36b0ef30-366f-4b1b-8652-a3511df11f53", 
{"properties": 
{"displayName": "Deploy Threat Detection on SQL servers", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy ensures that Threat Detection is enabled on SQL"}}
Deploy prerequisites to audit Windows VMs configurations in "Security Options - Network Security". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Network Security". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Network security: Minimum session security for NTLM SSP based (including secure RPC) servers.

For applications using the NTLM Security Support Provider (SSP). The SSP Interface (SSPI) is used by applications that need authentication services.

Network security: Configure encryption types allowed for Kerberos:

= parameters("NetworkSecurityConfigureEncryptionTypesAllowedForKerberos")

= parameters("NetworkSecurityLANManagerAuthenticationLevel")

= parameters("NetworkSecurityLDAPClientSigningRequirements")

Network security: Minimum session security for NTLM SSP based (including secure RPC) servers:

Deployment:

properties:

mode: incremental

parameters:

vmName: "[field('name')]"

location: "[field('location')]"

configurationName: "[value: "AzureBaseline_SecurityOptionsNetworkSecurity"]

NetworkSecurityConfigureEncryptionTypesAllowedForKerberos: "[value: "parameters("NetworkSecurityConfigureEncryptionTypesAllowedForKerberos")"]"

NetworkSecurityLANManagerAuthenticationLevel: "[value: "parameters("NetworkSecurityLANManagerAuthenticationLevel")"]"


requirements;ExpectedValue","value"::[parameters("NetworkSecurityLDAPClientSigningRequirements")],"name":"Network security: Minimum session security for NTLM SSP based (including secure RPC) clients;ExpectedValue","value"::[parameters("NetworkSecurityMinimumSessionSecurityForNTLMSSPBasedIncludingSecureRPCClients")],"name":"Network security: Minimum session security for NTLM SSP based (including secure RPC) servers;ExpectedValue","value"::[parameters("NetworkSecurityMinimumSessionSecurityForNTLMSSPBasedIncludingSecureRPCServers")],"condition":equals(toLower(parameters("type")),
  toLower("Microsoft.Compute/virtualMachines")),"apiVersion":"2019-07-01","type":"Microsoft.Compute/virtualMachines","identity":{"type":"SystemAssigned"},"name":parameters("vmName"),"location":parameters("location"),"dependsOn":
  [concat('Microsoft.Compute/virtualMachines/',parameters("vmName"),'/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/',parameters("configurationName"))],
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  ]}],
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  "}d":"/providers/Microsoft.Authorization/policyDefinitions/36e17963-7202-494a-80c3-f508211e826b"],"type":"Microsoft.Authorization/policyDefinitions","name":"36e17963-7202-494a-80c3-f508211e826b"],
  
  "properties":{
    "displayName":"Microsoft Managed Control 1557 - Vulnerability Scanning | Review Historic Audit Logs","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Risk Assessment control","metadata":{
      "version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1557"},
  
  "policyRule":{
    
    "if":{
      "allOf":[
        "field":
      "type",
      "in":
      ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]
    ]
  
    
    "value":false,$equals":"true"],
    "then":{"effect":"audit"})
  
  
  
  "id":"/providers/Microsoft.Authorization/policyDefinitions/36be499-f2f2-41b6-880e-52d7ea1d94a5"],
  
  "type":"Microsoft.Authorization/policyDefinitions","name":"36be499-f2f2-41b6-880e-52d7ea1d94a5"],
  
  "properties":{
    "displayName":"[Preview]: Deploy prerequisites to audit Windows VMs configurations in "Security Options - Interactive Logon"","policyType":"BuiltIn","mode":"Indexed","description":"This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Interactive Logon". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"},
  
  metadata":{
    "version":"1.1.0-preview","category":"Guest Configuration","requiredProviders":{
      "Microsoft.GuestConfiguration":true},
  
  "policyRule":{
    "if":{
      "anyOf":[
      
      "field":
      "type",
      "equals":
      "Microsoft.Compute/imagePublisher","in":
      ["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]
    ]
  
    
    "anyOf":[
      "field":
      "Microsoft.Compute/imagePublisher","in":
      ["MicrosoftSQLServer"]
    ]
  
    
    "anyOf":[
      "field":
      "Microsoft.Compute/imagePublisher","equals":
      "microsoft-dsvm"]
  
    
    "anyOf":[
      "field":
      "Microsoft.Compute/imagePublisher","equals":
      "dsvm-windows"]
    ]
  
    
    "anyOf":[
      "field":
      "Microsoft.Compute/imagePublisher","equals":
      "microsoft-
Managed Control 1624 - Boundary Protection
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1624" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/3d079e3-d6aa-4263-a069-dd7ac6dd9684", "type": "Microsoft.Authorization/policyDefinitions", "name": "3d079e3-d6aa-4263-a069-dd7ac6dd9684" }, {"properties": {"displayName": "Storage accounts should be migrated to new Azure Resource Manager resources", "policyType": "BuiltIn", "mode": "All", "description": "Use new Azure Resource Manager for your storage accounts to provide security enhancements such as: stronger access control (RBAC), better auditing, Azure Resource Manager based deployment and governance, access to managed identities, access to key vault for secrets, Azure AD-based authentication and support for tags and resource groups for easier security management", "metadata": {"version": "1.0.0", "category": "Storage" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match" } }, "allowedValues": ["Audit", "Deny", "Disabled" ], "defaultValue": "Audit" } }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.ClassicStorage/storageAccounts", "Microsoft.Storage/StorageAccounts"]}, {"value": {[field('type')]}, "equals": "Microsoft.ClassicStorage/storageAccounts" }]}, "then": {"effect": {"parameters\(\text{\"effect\})\)" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/382016f3-d4ba-4e15-9716-55077ec4de2a", "type": "Microsoft.Authorization/policyDefinitions", "name": "382016f3-d4ba-4e15-9716-55077ec4de2a" }, {"properties": {"displayName": "Diagnostic logs in IoT Hub should be enabled", "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised", "metadata": {"version": "2.0.0", "category": "Internet of Things" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": ["AuditIfNotExists", "Disabled" ], "defaultValue": "AuditIfNotExists" }, "requiredRetentionDays": {"type": "String", "metadata": {"displayName": "Required retention (days)" }, "description": "The required diagnostic logs retention in days" } }, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Devices/IotHubs" }, "then": {"effect": "parameters\(\text{\"effect\})\)" }, "details": {"type": "Microsoft.Insights/diagnosticSettings", "existenceCondition": "count\(\text{\"count\})\)" }, "id": "/providers/Microsoft.Insights/policyDefinitions/3e0d2fe-28a5-43d6-a273-67d37d1f5606", "type": "Microsoft.Authorization/policyDefinitions", "name": "3e0d2fe-28a5-43d6-a273-67d37d1f5606" } } }
Open Source Used In SDWan 20.6.1  17741

Microsoft.

Managed Control 1081 - Information Sharing, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1081" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/383856f8-de7f-44a2-81fc-e5135b5c2aa4", "type": "Microsoft.Authorization/policyDefinitions", "name": "383856f8-de7f-44a2-81fc-e5135b5c2aa4", "properties": {"displayName": "Microsoft Managed Control 1081 - Information Sharing", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1081" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/383856f8-de7f-44a2-81fc-e5135b5c2aa4", "type": "Microsoft.Authorization/policyDefinitions", "name": "383856f8-de7f-44a2-81fc-e5135b5c2aa4", "properties": {"displayName": "Microsoft Managed Control 1081 - Information Sharing"}},
Advanced data security settings for SQL managed instance should contain an email address to receive security alerts.

Ensure that an email address is provided for the "Send alerts to" field in the Advanced Data Security server settings. This email address receives alert notifications when anomalous activities are detected on SQL managed instances.

Managed Control 1232 - Configuration Management Plan

Microsoft Managed Control 1232 - Configuration Management Plan implements this Configuration Management control.

Microsoft Managed Control 1246 - Contingency Plan

Microsoft Managed Control 1246 - Contingency Plan implements this Contingency Planning control.

FTPS only should be required in your Function App, FTPS enforcement for enhanced security.

Open Source Used In SD Wan
Managed Control 1680 - Malicious Code Protection | Central
Managed Control 1228 - Information System Component Inventory | Accountability
Managed Control 1039 - Least Privilege | Review Of User Privileges
Managed Control 1648 - Collaborative Computing
Managed Control 1315 - Identifier

Microsoft implements this System and Information Integrity control
Regulatory Compliance
Managed Control 1680 - Malicious Code Protection | Central
Managed Control 1228 - Information System Component Inventory | Accountability
Managed Control 1039 - Least Privilege | Review Of User Privileges
Managed Control 1648 - Collaborative Computing
Managed Control 1315 - Identifier

Microsoft implements this System and Information Integrity control
Regulatory Compliance

Pod Security Policies should be defined on Kubernetes Services. Pod Security Policies to reduce the attack vector by removing unnecessary application privileges. It is recommended to configure Pod Security Policies to only allow pods to access the resources which they have permissions to access.

**Pod Security Policies**

- **podsecuritypolicy/default**
  - **metadata**: {} (empty)
  - **spec**: {} (empty)
  - **parameters**: {} (empty)

**Managed Control 1548 - Vulnerability Scanning**

Microsoft implements this Risk Assessment control, which mandates that static configuration should be periodically reviewed.

**Managed Control 1266 - Contingency Plan Testing | Alternate Processing Site**

Microsoft implements this Contingency Planning control, which mandates that static configuration should be periodically reviewed.

**Managed Control 1003 - Account Management**

Microsoft implements this Access Control control, which mandates that static configuration should be periodically reviewed.

An activity log alert should exist for specific Security operations. This policy audits specific Security operations with no activity log alerts configured.

**Open Source Used In SD-WAN**

- **Version**: "20.6.1"
- **Description**: "Define Pod Security Policies to reduce the attack vector by removing unnecessary application privileges. It is recommended to configure Pod Security Policies to only allow pods to access the resources which they have permissions to access."

Existence Condition:
- If field: Microsoft.Insights/ActivityLogAlerts/enabled, equals: true
- Count: 
  - field: Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].where: 
    - anyOf: [
      - ["field": Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].field, equals: operationName, equals: ["parameters(operationName)]]
    ]
- 2
- Not:
  - field: Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].field, equals: category
  - field: Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].equals, equals: Security

Parameters:
- listOfImageIdToInclude: Array

Policy Rule:
- If:
  - AllOf:
    - field: type, equals: Microsoft.Resources/subscriptions
  - Then:
    - effect: [parameters('effect')]
    - Details:
      - type: Microsoft.Insights/ActivityLogAlerts
        - Existence Condition:
          - AllOf:
            - field: Microsoft.Insights/ActivityLogAlerts/enabled, equals: true
            - Count:
              - AllOf:
                - field: Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].where: 
                  - anyOf: [
                    - field: Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].field, equals: category
                    - field: Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].equals, equals: Security
                  ]
          - 2
          - Not:
            - field: Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].field, equals: category
            - field: Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].equals, equals: Security

Dependency agent for Windows virtual machine scale sets:
- Policy Type: BuiltIn
- Mode: Indexed
- Description: Deploy Dependency agent for Windows virtual machine scale sets if the VM Image (OS) is in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated. Note: if your scale set upgrade policy is set to Manual, you need to apply the extension to the all VMs in the set by calling upgrade on them. In CLI this would be az vms update-instances.
- Metadata:
  - Version: 1.0.1
  - Category: Monitoring
  - Parameters:
    - listOfImageIdToInclude: [type: Array]

List of VM images that have supported Windows OS to add to scope:
- Example value:
  - /subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage

Open Source Used In SDWan 20.6.1 17745
(OS) is in the list defined and the agent is not installed. The list of OS
images will be updated over time as support is updated. Note: if your scale
set upgradePolicy is set to Manual, you need to apply the extension to the
all VMs in the set by calling upgrade on them. In CLI this would be az vmss
updateinstances.","metadata":{"version":"1.0.1","category":"Monitoring"},"parameters":{"logAnalytics":{"type":"String",
"metadata":{"displayName":"Log
Analytics workspace","description":"Select Log Analytics workspace from dropdown
list. If this workspace is outside of the scope of the assignment you must
manually grant ''Log Analytics Contributor'' permissions (or similar) to the
policy assignment''s principal
ID.","strongType":"omsWorkspace","assignPermissions":true}},"listOfImageIdToInclude":{"type":"Array","metad
ata":{"displayName":"Optional:
List of VM images that have supported Windows OS to add to scope","description":"Example
value:
''/subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/Contos
oStdImage''"},"defaultValue":[]}},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtual
MachineScaleSets"},{"anyOf":[{"field":"Microsoft.Compute/imageId","in":"[parameters(''listOfImageIdToInclude''
)]"},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"field":"Micro
Microsoft.Compute/imageOffer","equals":"WindowsServerSemiAnnual"},{"field":"Microsoft.Compute/imageSKU
","in":["Datacenter-Core-1709-smalldisk","Datacenter-Core-1709-with-Containers-smalldisk","Datacenter-Core1803-with-Containerssmalldisk"]}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServerHPCPac
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ensions","roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-

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Managed Control 1277 - Time Stamps, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1127"}, "policyRule": {
  "if": {
    "allOf": [{
      "field": "type",
      "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
    }, {"value": "false", "equals": "true"}],
    "then": {
      "effect": "audit"
    }
  }
  "displayName": "Deploy Diagnostic Settings for Search Services to Event Hub", "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploys the diagnostic settings for Search Services to stream to a regional Event Hub when any Search Services which is missing this diagnostic settings is created or updated.", "metadata": {"version": "2.0.0", "category": "Monitoring"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": [{"DeploysIfNotExists": "Disabled"}, "defaultValue": "DeploysIfNotExists"], "profileName": {"type": "String", "metadata": {"displayName": "Profile name", "description": "The diagnostic settings profile name"}}, "defaultValue": "setbypolicy_eventHub"}, "eventHubRuleId": {"type": "String", "metadata": {"displayName": "Event Hub Authorization Rule Id", "description": "The Event Hub authorization rule Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. e.g. /subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/namespaces/{Event Hub namespace}/authorizationrules/[authorization rule]", "strongType": "Microsoft.EventHub/NAMESPACES/AuthorizationRules", "assignPermissions": "true"}}, "eventHubLocation": {"type": "String", "metadata": {"displayName": "Event Hub Location", "description": "The location the Event Hub resides in. Only Search Services in this location will be linked to this Event Hub."}}, "defaultValue": ""}, "metricsEnabled": {"type": "String", "metadata": {"displayName": "Enable metrics", "description": "Whether to enable metrics stream to the Event Hub - True or False"}, "allowedValues": [{"True", "False"}], "defaultValue": "False"}, "logsEnabled": {"type": "String", "metadata": {"displayName": "Enable logs", "description": "Whether to enable logs stream to the Event Hub - True or False"}, "allowedValues": [{"True", "False"}], "defaultValue": "False"}, "policyRule": {
  "if": {
    "allOf": [{
      "field": "type",
      "equals": "Microsoft.Search/searchServices"}
  }, {"anyOf": [{"value": "[parameters(eventHubLocation)]", "equals": ""}]
  }, {"effect": "audit"
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/40e1f1862e5", "type": "Microsoft.Authorization/policyDefinitions", "name": "40e1f1862e5", "properties": {"displayName": "Open Source Used In SDWan 20.6.1 17749"}
Show audit results from Windows VMs configurations in "Security Options - Devices". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Devices". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Deploy default Log Analytics Agent for Ubuntu VMs.

This policy deploys the Log Analytics Agent on Ubuntu VMs, and connects to the selected Log Analytics workspace.

Log Analytics workspace's description: Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal.

Microsoft Managed Control 1385 - Information Spillage Response

Microsoft implements this Incident Response control.
Open Source Used In SDWan

Monitor solution "Security and Audit" must be deployed.

Managed Control 1160 - Security Authorization

Managed Control 1545 - Risk Assessment

Managed Control 1179 - Baseline Configuration | Reviews And Updates

Audit API Applications that are not using latest supported PHP Framework

Use the latest supported PHP version for the latest security classes. Using older classes and types can make your application vulnerable.
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Managed Control 1561 - Allocation Of Resources

Managed Control 1100 - Audit And Accountability Policy And Procedures

Managed Control 1637 - Boundary Protection | Fail Secure
implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1637"},"policyRule ":{"if":{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit" }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4075bedc-c62a-4635-bede-a01be89807f3"}, "type": "Microsoft.Authorization/policyDefinitions","name": "4075bedc-c62a-4635-bede-a01be89807f3"}, ","properties":{"displayName": "[Preview]: Deploy prerequisites to audit Windows VMs configurations in "Administrative Templates - System"", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Administrative Templates - System". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata":{"version":"1.1.0-preview","category":"Guest Configuration","requiredProviders": ["Microsoft.GuestConfiguration"], "preview": true },"parameters": {"AlwaysUseClassicLogon": {"type": "String", "metadata": {"displayName": "[Preview]: Always use classic logon", "description": "Specifies whether to force the user to log on to the computer using the classic logon screen. This setting only works when the computer is not on a domain.", "defaultValue": 0 }, "BootStartDriverInitializationPolicy": {"type": "String", "metadata": {"displayName": "[Preview]: Boot-Start Driver Initialization Policy", "description": "Specifies which boot-start drivers are initialized based on a classification determined by an Early Launch Antimalware boot-start driver.", "defaultValue": 3 }, "EnableWindowsNTPClient": {"type": "String", "metadata": {"displayName": "[Preview]: Enable Windows NTP Client", "description": "Specifies whether the Windows NTP Client is enabled. Enabling the Windows NTP Client allows your computer to synchronize its computer clock with other NTP servers.", "defaultValue": 1 }, "TurnOnConveniencePINSignin": {"type": "String", "metadata": {"displayName": "[Preview]: Turn on convenience PIN sign-in", "description": "Specifies whether a domain user can sign in using a convenience PIN.", "defaultValue": 0 }}, "policyRule": {"if": {"anyOf": [{"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, {"anyOf": [{"field": "type", "in": ["Microsoft.DynamosAX", "Microsoft.Sharepoint", "Microsoft.VisualStudio", "Microsoft.WindowsDesktop", "Microsoft.WindowsServerHPCPack"]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-dsvm"}, {"field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"}], "field": "Microsoft.Compute/imageOffer", "in": ["standard-data-science-vm", "windows-data-science-vm"]}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "batch"}], "field": "Microsoft.Compute/imageOffer", "equals": "rendering-

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17756

parameters("configurationName")}, "location": 
[parameters("location")], "properties": 
{ "guestConfiguration": 
{ "name": "Always use classic logon;ExpectedValue", "value": 
[parameters("AlwaysUseClassicLogon")], 
"name": "Boot-Start Driver Initialization Policy;ExpectedValue", "value": 
[parameters("EnableWindowsNTPClient")], 
"name": "Turn on convenience PIN signin;ExpectedValue", "value": 
[parameters("TurnOnConveniencePINSigin")]
}} }, 
{ "condition": 
{ "equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))" }, 
"identity": 
{ "type": "SystemAssigned" }, 
"name": 
[parameters("vmName")], 
"location": 
[parameters("location")], 
"condition": 
{ "equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))" }, 
"apiVersion": "2015-05-01-preview", 
"name": 
[concat(parameters("vmName"), 
"/AzurePolicyforWindows")], 
"type": "Microsoft.Compute/virtualMachines/extensions", 
"location": 
[parameters("location")], 
"properties": 
{ "publisher": "Microsoft.GuestConfiguration", 
"type": "ConfigurationforWindows", 
"typeHandle rVersion": "1.1", 
"autoUpgradeMinorVersion": true, 
"settings": 
{}, 
"dependsOn": 
[concat("Microsoft.Compute/virtualMachines/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/", 
parameters("configurationName")]
}], 
"id": 
/providers/Microsoft.Authorization/policyDefinitions/40917425-69db-4018-8dae-2a0556c8ef899, 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": 
"Microsoft Managed Control 1202 - Access Restrictions For Change", 
"policyType": 
"Static", 
"mode": 
"Indexed", 
"description": 
"Microsoft implements this Configuration Management control", 
"metadata": 
{ "version": "1.0.0", 
"category": "Regulatory Compliance", 
"additionalMetadataId": 
/providers/Microsoft.PolicyInsights/policyMetadata/ACF1202" }, 
"policyRule": 
{ "if": 
{ "allOf": 
[ 
{ "field": 
[concat("tags["", parameters("tagName"), 
"]")], 
"exists": false, 
"value": 
[subscription().tags[parameters("tagName")]], 
"notEquals": "" }, ] 
"then": 
{ "effect": "audit" } 
}, 
"id": 
/providers/Microsoft.Authorization/policyDefinitions/40df99da-1232-49b1-a39a-6da8d878f469, 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": 
"40df99da-1232-49b1-a39a-6da8d878f469" }
Managed Control 1365 - Incident Handling | Continuity Of Operations,

\texttt{policyType}: Static, mode: Indexed, description: Microsoft implements this Incident Response control, metadata: \texttt{version}=1.0.0, category: Regulatory Compliance, additionalMetadataId: \\
/providers/Microsoft.PolicyInsights/policyMetadata/ACF1365, policyRule:

```json
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}],
"then": {
"effect": audit
}
},
"id": \\
/providers/Microsoft.Authorization/policyDefinitions/4116891d-72f7-46ee-911c-8056cc8dc8d5,
```

Managed Control 1022 - Account Management | Shared / Group Account Credential Termination,

\texttt{policyType}: Static, mode: Indexed, description: Microsoft implements this Access Control control, metadata: \texttt{version}=1.0.0, category: Regulatory Compliance, additionalMetadataId: \\
/providers/Microsoft.PolicyInsights/policyMetadata/ACF1022, policyRule:

```json
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}],
"then": {
"effect": audit
}
},
"id": \\
/providers/Microsoft.Authorization/policyDefinitions/411f7e2d-9a0b-4627-a0b9-170043db47d,
```

Managed Control 1464 - Monitoring Physical Access | Intrusion Alarms / Surveillance Equipment,

\texttt{policyType}: Static, mode: Indexed, description: Microsoft implements this Physical and Environmental Protection control, metadata: \texttt{version}=1.0.0, category: Regulatory Compliance, additionalMetadataId: \\
/providers/Microsoft.PolicyInsights/policyMetadata/ACF1464, policyRule:

```json
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]},
{"value": false, "equals": true}],
"then": {
"effect": audit
}
},
"id": \\
/providers/Microsoft.Authorization/policyDefinitions/41256567-1795-4684-b00b-a1308ce43ec4,
```

Monitor should collect activity logs from all regions,

\texttt{policyType}: BuiltIn, mode: All, description: This policy audits the Azure Monitor log profile which does not export activities from all Azure supported regions including global,

\texttt{displayName}: "Microsoft Monitor should collect activity logs from all regions",

```json
"if": {
"field": type, "equals": Microsoft.Resources/subscriptions},
"then": {
"effect": [parameters('effect')],
"details": [type="Microsoft.Insights/logProfiles", "existenceCondition": allOf[
{not: [field="Microsoft.Insights/logProfiles/locations[*]", notEquals="australiacentral"]},
{not: [field="Microsoft.Insights/logProfiles/locations[*]", notEquals="australiaeast"]}
]
```

---

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Managed Control 1263 - Contingency Plan Testing

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1263"}, "policyRule": {"if": {"allOf": ["{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}}, "/providers/Microsoft.Authorization/policyDefinitions/41388f1c-2db0-4c25-95b2-35d7f5cbfa9", "type": "Microsoft.Authorization/policyDefinitions", "name": "41388f1c-2db0-4c25-95b2-35d7f5cbfa9", "properties": {"displayName": "Microsoft Managed Control 1263 - Contingency Plan Testing"}

Managed Control 1096 - Role-Based Security Training | Practical Exercises

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Awareness and Training control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1096"}, "policyRule": {"if": {"allOf": ["{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}}, "/providers/Microsoft.Authorization/policyDefinitions/41472613-3b05-49f6-8fe8-525af113ce17", "type": "Microsoft.Authorization/policyDefinitions", "name": "41472613-3b05-49f6-8fe8-525af113ce17", "properties": {"displayName": "Microsoft Managed Control 1096 - Role-Based Security Training | Practical Exercises"}

Managed Control 1260 - Contingency Training | Simulated Events

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1260"}, "policyRule": {"if": {"allOf": ["{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}}, "/providers/Microsoft.Authorization/policyDefinitions/420c1477-aa43-49d0-bd7e-c4abdd9addff", "type": "Microsoft.Authorization/policyDefinitions", "name": "420c1477-aa43-49d0-bd7e-c4abdd9addff", "properties": {"display Name": "Microsoft Managed Control 1260 - Contingency Training | Simulated Events"}
implements this Contingency Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1694"},"policyRule 
{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":"false","equals":"true"}]}},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/426c4ac9-ff17-49d0-acd7-a13c157081c0","type":"Microsoft.Authorization/policyDefinitions","name":"426c4ac9-ff17-49d0-acd7-a13c157081c0"},"properties":{"displayName":"Diagnostic logs in Batch accounts should be enabled","policyType":"BuiltIn","mode":"Indexed","description":"Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised","metadata":{"version":"2.0.0","category":"Batch"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"requiredRetentionDays":{"type":"String","metadata":{"displayName":"Required retention (days)","description":"The required diagnostic logs retention in days"},"defaultValue":"365"}}},"policyRule":{"if":{"field":"type","equals":"Microsoft.Batch/batchAccounts"},"then":["parameters(''effect'')","details":{"type":"Microsoft.Insights/diagnosticSettings","existenceCondition":{"count":{"field":"Microsoft.Insights/diagnosticSettings/logs[*]","where":{"anyOf":[{"allOf":[{"field":"Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled","equals":"true"}],"anyOf":[{"field":"Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.days","equals":"0"},{"field":"Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.days","equals":"[parameters(''requiredRetentionDays'')"]"}]}],"field":"Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled","equals":"true"}],"allOf":[{"not":{"field":"Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled","equals":"true"}],"field":"Microsoft.Insights/diagnosticSettings/logs.enabled","equals":"true"}],"greaterOrEquals":1}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/428256e6-1fac-4f48-a757-df34c2b3336d","type":"Microsoft.Authorization/policyDefinitions","name":"428256e6-1fac-4f48-a757-df34c2b3336d"},"properties":{"displayName":"[Preview]: Deploy prerequisites to audit Windows VMs configurations in ''System Audit Policies - Detailed Tracking''","policyType":"BuiltIn","mode":"Indexed","description":"This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: ''System Audit Policies - Detailed Tracking''. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"},"metadata":{"version":"1.1.0-preview","category":"Guest Configuration","requiredProviders":["Microsoft.GuestConfiguration"],"preview":true},"parameters":
Audit Process Termination: {
  "type": "String",
  "metadata": {
    "displayName": "[Preview]: Audit Process Termination",
    "description": "Specifies whether audit events are generated when a process has exited. Recommended for monitoring termination of critical processes."
  },
  "allowedValues": ["No Auditing", "Success", "Failure", "Success and Failure"],
  "defaultValue": "No Auditing"
},
"policyRule": {
  "if": {
    "anyOf": {
      "allOf": {
        "field": "Microsoft.Compute/virtualMachines",
        "in": ["[standard-data-science-vm", "windows-data-science-vm"]]
      }
    }
  },
  "then": {
    "effect": "deployIfNotExists",
    "details": {
      "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-
        20f7382dd24c"],
      "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments",
      "name": "AzureBaseline_SystemAuditPoliciesDetailedTracking",
      "existenceCondition": {
        "field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash",
        "equals": "[base64(concat("Audit Process Termination:ExpectedValue", ")]]=")
      },
      "deployment": {
        "properties": {
          "vmName": {"value": ["field(name)"]},
          "location": {"value": ["field(location)"]},
          "configurationName": {"value": "AzureBaseline_SystemAuditPoliciesDetailedTracking"},
          "AuditProcessTermination": {"value": ["parameters(AuditProcessTermination)"]}
        },
        "template": {
          "contentVersion": "1.0.0.0",
          "parameters": {
            "vmName": {"type": "string"},
            "location": {"type": "string"},
            "configurationName": {"type": "string"},
            "AuditProcessTermination": {"type": "string"}
          },
          "resources": {
            "condition": {
              "equalsToLower(parameters("type"), toLower("microsoft.hybridcompute/machines"))"
            },
            "apiVersion": "2018-11-20",
            "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments",
            "name": ["concat(parameters("vmName"), ", "Microsoft.GuestConfiguration", ", parameters("configurationName")), "location": ["parameters(location)"], "properties": {
              "guestConfiguration": {"name": ["parameters(configurationName)"], "version": "1.0", "configurationParameter": ["name": "Audit Process""
            ]}
          }
        }
      }
    }
  }
}
Deploy prerequisites to audit Windows VMs configurations in "Security Options - System settings". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - System settings". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

System settings: Use Certificate Rules on Windows Executables For Software Restriction Policies:

- Specifies whether digital certificates are processed when software restriction policies are enabled and a user or process attempts to run software with an .exe file name extension. It enables or disables certificate rules (a type of software restriction policies rule).

For certificate rules to take effect in software restriction policies, you must enable this policy setting.

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ute/virtualMachines/osProfile.windowsConfiguration","exists":"true"},{"field":"Microsoft.Compute/virtualMachine
s/storageProfile.osDisk.osType","like":"Windows*"}]},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists
":"false"},{"allOf":[{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"},{"field":"Microsoft.Compute/im
ageOffer","notLike":"SQL2008*"}]}]}]}]}]},{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machin
es"},{"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}]}]},"then":{"effect":"deployIfNotExists"
,"details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab8820f7382dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"AzureBaseline_S
ecurityOptionsSystemsettings","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAs
signments/parameterHash","equals":"[base64(concat(''System
settings: Use Certificate Rules on Windows Executables for Software Restriction
Policies;ExpectedValue'', ''='',
parameters(''SystemSettingsUseCertificateRulesOnWindowsExecutablesForSoftwareRestrictionPolicies'')))]"},"depl
oyment":{"properties":{"mode":"incremental","parameters":{"vmName":{"value":"[field(''name'')]"},"location":{"v
alue":"[field(''location'')]"},"type":{"value":"[field(''type'')]"},"configurationName":{"value":"AzureBaseline_Securi
tyOptionsSystemsettings"},"SystemSettingsUseCertificateRulesOnWindowsExecutablesForSoftwareRestrictionPoli
cies":{"value":"[parameters(''SystemSettingsUseCertificateRulesOnWindowsExecutablesForSoftwareRestrictionPol
icies'')]"}},"template":{"$schema":"https://schema.management.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{
"type":"string"},"type":{"type":"string"},"configurationName":{"type":"string"},"SystemSettingsUseCertificateRul
esOnWindowsExecutablesForSoftwareRestrictionPolicies":{"type":"string"}},"resources":[{"condition":"[equals(to
Lower(parameters(''type'')),
toLower(''microsoft.hybridcompute/machines''))]","apiVersion":"2018-1120","type":"Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"System
settings: Use Certificate Rules on Windows Executables for Software Restriction
Policies;ExpectedValue","value":"[parameters(''SystemSettingsUseCertificateRulesOnWindowsExecutablesForSoft
wareRestrictionPolicies'')]"}]}}},{"condition":"[equals(toLower(parameters(''type'')),
toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2018-1120","type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"System
settings: Use Certificate Rules on Windows Executables for Software Restriction
Policies;ExpectedValue","value":"[parameters(''SystemSettingsUseCertificateRulesOnWindowsExecutablesForSoft
wareRestrictionPolicies'')]"}]}}},{"condition":"[equals(toLower(parameters(''type'')),
Name'')]","location":"[parameters(''location'')]"},{"condition":"[equals(toLower(parameters(''type'')),
toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2015-05-01preview","name":"[concat(parameters(''vmName''),
''/AzurePolicyforWindows'')]","type":"Microsoft.Compute/virtualMachines/extensions","location":"[parameters(''loc
ation'')]","properties":{"publisher":"Microsoft.GuestConfiguration","type":"ConfigurationforWindows","typeHandle
rVersion":"1.1","autoUpgradeMinorVersion":true,"settings":{},"protectedSettings":{}},"dependsOn":["[concat(''Mi
crosoft.Compute/virtualMachines/'',parameters(''vmName''),''/providers/Microsoft.GuestConfiguration/guestConfigu

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rationAssignments"],["parameters":{"configurationName":null}]}}]}"},"id":"/providers/Microsoft.Authorization/policyDefinitions/437a1f8f-8552-47a8-8b12-a2fee3269dd5","type":"Microsoft.Authorization/policyDefinitions","name":"437a1f8f-8552-47a8-8b12-a2fee3269dd5","properties":{"displayName":"Microsoft Managed Control 1544 - Risk Assessment","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Risk Assessment control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1544"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":"false","equals":"true"}],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/43ced7c9-cd53-456b-b0da-2522649a4271","type":"Microsoft.Authorization/policyDefinitions","name":"43ced7c9-cd53-456b-b0da-2522649a4271","properties":{"displayName":"Microsoft Managed Control 1398 - Controlled Maintenance","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Maintenance control","metadata":{"version":"1.0.0-deprecated","category":"Security Center","deprecated":true},"parameters":{"effect":{"type":"String","metadata":{"displayName":"[Deprecated]: Effect","description":"Enable or disable the execution of the policy"},"allowedValues":["AuditIfNotExists","Disabled"]},"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Compute/virtualMachines","Microsoft.ClassicCompute/virtualMachines"]}],"then":{"effect":"audit"},"details":{"type":"Microsoft.Security/complianceResults","name":"permissiveNetworkAccess","existenceCondition":{"field":"Microsoft.Security/complianceResults/resourceStatus","in":["OffByPolicy","Healthy"]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/44552482-524f-4bf4-b852-0bf7f4ca43ed","type":"Microsoft.Authorization/policyDefinitions","name":"44552482-524f-4bf4-b852-0bf7f4ca43ed","properties":{"displayName":"Microsoft Managed Control 1066 - Remote Access | Disconnect / Disable Access","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1066"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":"false","equals":"true"}],"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/44552482-524f-4bf4-b852-0bf7f4ca43ed","properties":{"displayName":"Microsoft Managed Control 1720 - Spam Protection","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1720"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":"false","equals":"true"}],"then":null}}}}}}}},
Managed Control 1334 - Authenticator Management | Pki-Based Authentication

Managed Control 1604 - Developer Security Testing And Evaluation

Managed Control 1712 - Software, Firmware, And Information Integrity

Managed Control 1310 - Device Identification And Authentication

Managed Control 1559 - System And Services Acquisition Policy And Procedures
Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1559"},"policyRule":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true"],"then":{"effect":audit"}],"id":/providers/Microsoft.Authorization/policyDefinitions/45692294-f074-42bd-ac54-16f1a3c07554"},"type":Microsoft.Authorization/policyDefinitions","name":45692294-f074-42bd-ac54-16f1a3c07554"},"properties":{"displayName":"Microsoft Managed Control 1578 - Acquisition Process | Functions / Ports / Protocols / Services In Use","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1578"},"policyRule":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true"],"then":{"effect":audit"}],"id":/providers/Microsoft.Authorization/policyDefinitions/45b7b644-5f91-498e-9d89-7402532d3645"},"type":Microsoft.Authorization/policyDefinitions","name":45b7b644-5f91-498e-9d89-7402532d3645"},"properties":{"displayName":"Microsoft Managed Control 1565 - System Development Life Cycle","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1565"},"policyRule":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true"],"then":{"effect":audit"}],"id":/providers/Microsoft.Authorization/policyDefinitions/45ce2396-5c76-4654-9737-f8792ab3d26b"},"type":Microsoft.Authorization/policyDefinitions","name":45ce2396-5c76-4654-9737-f8792ab3d26b"},"properties":{"displayName":"Microsoft Managed Control 1337 - Authenticator Management | In-Person Or Trusted Third-Party Registration","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control","metadata":{"version":1.0.0,"category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1337"},"policyRule":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],"value":false,"equals":true"],"then":{"effect":audit"}],"id":/providers/Microsoft.Authorization/policyDefinitions/463e5220-3f79-4e24-a63f-343e4096cd22"},"type":Microsoft.Authorization/policyDefinitions","name":463e5220-3f79-4e24-a63f-343e4096cd22"},"properties":{"displayName":[]"}
Audit Web Applications that are not using latest supported Python Framework

"policyType":"BuiltIn","mode":"All","description":"Use the latest supported Python version for the latest security classes. Using older classes and types can make your application vulnerable.","metadata":{"version":"1.0.0-deprecated","category":"Security","deprecated":true},"parameters":{
  "effect":{"type":"String","metadata":{"displayName":"[Deprecated]: Effect","description":"Enable or disable the execution of the policy"},"allowedValues":null,"defaultValue":"AuditIfNotExists"},
  "details":{"type":null,"metadata":null}
},

"policyRule":{
  "if":{
  "then":{
    "effect":null,"details":null,
    "type":null,"metadata":null,
    "existenceCondition":null
  }
},

"id":null,"type":null,"name":null,"properties":null,

---

Require automatic OS image patching on Virtual Machine Scale Sets

"policyType":null,"mode":null,"description":null,

"policyRule":{
  "if":null,"then":null,
  "type":null,"metadata":null,
  "existenceCondition":null
},

"id":null,"type":null,"name":null,"properties":null,

---

Managed Control 1368 - Incident Handling | Correlation With External Organizations

"policyType":null,"mode":null,"description":null,

"policyRule":null,"then":null,

"id":null,"type":null,"name":null,"properties":null,

---

Managed Control 1062 - Remote Access | Protection Of Confidentiality / Integrity

Using Encryption

"policyType":null,"mode":null,"description":null,

"policyRule":null,"then":null,

"id":null,"type":null,"name":null,"properties":null,
Cosmos DB key based metadata write access should be disabled, "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy enables you to ensure all Azure Cosmos DB accounts disable key based metadata write access.", "metadata": { "version": "1.0.0", "category": "Cosmos DB" }, "parameters": {}, "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "Microsoft.DocumentDB/databaseAccounts" }, { "field": "Microsoft.DocumentDB/databaseAccounts/disableKeyBasedMetadataWriteAccess", "notEquals": true } ] }, "then": { "effect": "append", "details": { "field": "Microsoft.DocumentDB/databaseAccounts/disableKeyBasedMetadataWriteAccess", "value": true } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/4708723f-e099-4af1-bb9f-b6df7642e444", "name": "Azure Cosmos DB key based metadata write access should be disabled" }

Automatic provisioning of the Log Analytics monitoring agent should be enabled on your subscription, "policyType": "BuiltIn", "mode": "All", "description": "Enable automatic provisioning of the Log Analytics monitoring agent in order to collect security data", "metadata": { "version": "1.0.0", "category": "Security Center" }, "parameters": { "effect": { "type": "String", "metadata": { "displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": [ "AuditIfNotExists", "Disabled" ], "defaultValue": "AuditIfNotExists" } }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.Resources/subscriptions" }, "then": { "effect": [ "parameters('effect')" ], "details": { "type": "Microsoft.Security/autoProvisioningSettings", "existenceCondition": { "field": "Microsoft.Security/autoProvisioningSettings/autoProvision", "equals": "On" } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/4750c32b-89c0-46af-bfcb-2e4541a818d5", "name": "Automatic Application Controls should be enabled on virtual machines", "policyType": "BuiltIn", "mode": "All", "description": "Possible Application Whitelist configuration will be monitored by Azure Security Center", "metadata": { "version": "1.0.1", "category": "Security Center" }, "parameters": { "effect": { "type": "String", "metadata": { "displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": [ "AuditIfNotExists", "Disabled" ], "defaultValue": "AuditIfNotExists" } }, "policyRule": { "if": { "field": "type", "in": [ "Microsoft.Compute/virtualMachines", "Microsoft.ClassicCompute/virtualMachines" ] }, "then": { "effect": [ "parameters('effect')" ], "details": { "type": "Microsoft.Security/complianceResults", "name": "applicationWhitelisting", "existenceCondition": { "field": "Microsoft.Security/complianceResults/resourceStatus", "in": [ "OffByPolicy", "Healthy" ] } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/475aae12-b88a-4572-8b36-9b712b2b3a17", "name": "Adaptive Managed Control 1359 - Incident Response Testing | Coordination With Related Plans", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1359" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true } ] }, "then": { "effect": [ "audit" ] } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/47a6b606-51aa-4496-8bb7-64b11cf66ade", "name": "Microsoft Managed Control 1359 - Incident Response Testing | Coordination With Related Plans", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1359" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] }, { "value": false, "equals": true } ] }, "then": { "effect": [ "audit" ] } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/47bc7ea0-7d13-4f7c-a154-b903f7194253", "name": "Microsoft Managed Control 1165 - Continuous Monitoring", "policyType": "Static", "mode": "Indexed", "description": "Microsoft Managed Control 1165 - Continuous Monitoring", "policyType": "Static", "mode": "Indexed", "description": "Microsoft Managed Control 1165 - Continuous Monitoring" }
implements this Security Assessment and Authorization control. 

Managed Control 1048 - System Use Notification
"policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this Access Control control. 

Managed Control 1033 - Separation Of Duties
"policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this Access Control control. 

Managed Control 1477 - Fire Protection | Detection Devices / Systems
"policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this Physical and Environmental Protection control. 

Managed Control 1484 - Water Damage Protection | Automation Support
"policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this Physical and Environmental Protection control. 

Audit IP restrictions configuration for an API App
"policyType": "BuiltIn", "mode": "All", "description": "IP Restrictions allow you to define a list of IP addresses that are allowed to
access your app. Use of IP Restrictions protects an API app from common
attacks.","metadata":{"version":"1.0.0-deprecated","category":"Security
Center","deprecated":true},"parameters":{"effect":{"type":"String","metadata":{"displayName":"[Deprecated]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":
{"allof":[{"field":"type","equals":"microsoft.Web/sites"},{"anyof":[{"field":"kind","equals":"api"},{"field":"kind","
equals":"apiApp"}]}]},"then":{"effect":"[parameters(''effect'')]","details":{"type":"Microsoft.Security/complianceRe
sults","name":"ConfigureIPRestrictions","existenceCondition":{"field":"Microsoft.Security/complianceResults/reso
urceStatus","in":["OffByPolicy","Healthy"]}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/48893
b84-a2c8-4d9a-badf-835d5d1b7d53","type":"Microsoft.Authorization/policyDefinitions","name":"48893b84-a2c84d9a-badf-835d5d1b7d53"},{"properties":{"displayName":"Geo-redundant
backup should be enabled for Azure Database for
PostgreSQL","policyType":"BuiltIn","mode":"Indexed","description":"This
policy audits any Azure Database for PostgreSQL with geo-redundant backup
not
enabled.","metadata":{"version":"1.0.0","category":"SQL"},"parameters":{"effect":{"type":"String","metadata":{"di
splayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["Audit","Disabled"],"defaultValue":"Audit"}},"policyRule":{"if":{"allOf":[{"field":"typ
e","equals":"Microsoft.DBforPostgreSQL/servers"},{"field":"Microsoft.DBforPostgreSQL/servers/storageProfile.ge
oRedundantBackup","notEquals":"Enabled"}]},"then":{"effect":"[parameters(''effect'')]"}}},"id":"/providers/Micros
oft.Authorization/policyDefinitions/48af4db5-9b8b-401c-8e74076be876a430","type":"Microsoft.Authorization/policyDefinitions","name":"48af4db5-9b8b-401c-8e74076be876a430"},{"properties":{"displayName":"Microsoft
Managed Control 1669 - Flaw Remediation","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this System and Information Integrity
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1669"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/48f2f62b-5743-4415-a143288adc0e078d","type":"Microsoft.Authorization/policyDefinitions","name":"48f2f62b-5743-4415-a143288adc0e078d"},{"properties":{"displayName":"Microsoft
Managed Control 1376 - Incident Response Assistance | Coordination With External
Providers","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1376"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/493a95f3-f2e3-47d0-af0265e6d6decc2f","type":"Microsoft.Authorization/policyDefinitions","name":"493a95f3-f2e3-47d0-af0265e6d6decc2f"},{"properties":{"displayName":"Ensure
that ''Java version'' is the latest, if used as a part of the Web
app","policyType":"BuiltIn","mode":"Indexed","description":"Periodically,
newer versions are released for Java software either due to security flaws
or to include additional functionality. Using the latest Java version for
web apps is recommended in order to take advantage of security fixes, if any,
and/or new functionalities of the latest version.","metadata":{"version":"1.0.0","category":"App

Open Source Used In SDWan 20.6.1 17770


Deploy prerequisites to audit Windows VMs configurations in "Security Options - Audit". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Audit". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Open Source Used In SDWan

Shut down system immediately if unable to log security audits: Expected Value:

- parameters("AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits")
- deployment:
  - properties:
    - mode: "incremental",
    - parameters:
      - vmName: "[field('name')]",
      - location: "[value: [field('location')]]",
      - type: "[value: [field('type')]]",
      - configurationName: "[value: AzureBaseline_SecurityOptionsAudit]",
      - AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits: "[value: [parameters('AuditShutDownSystemImm ediatelyIfUnableToLogSecurityAudits')]]",
  - template:
    - $schema: https://schema.management.azure.com/schemas/2015-01-
      deploymentTemplate.json#,
    - contentVersion: "1.0.0.0",
    - parameters:
      - vmName: "[type: 'string']",
      - location: "[type: 'string']",
      - type: "[type: 'string']",
      - configurationName: "[type: 'string']",
      - AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits: "[type: 'string']",
      - resources:
        - condition: "[equals(toLower(parameters('type')))",
          toLower(microsoft.hybridcompute/machines))]
          ,[apiVersion: '2018-11-
            20'],
          ,type: 'Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments',
          ,name: '[concat(parameters('vmName'))],
          ,parameters("configurationName")],
          ,location: '[parameters("location")],
          ,properties: "[guestConfiguration: {
            name: '[parameters("configurationName")],
            version: "1.*",
            configurationParameter: {
                name: "AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits"
            }
        },
        ,resources:
        - condition: "[equals(toLower(parameters('type')))",
          toLower(Microsoft.Compute/virtualMachines))]
          ,[apiVersion: '2018-11-
            20'],
          ,type: 'Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments',
          ,name: '[concat(parameters('vmName'))],
          ,parameters("configurationName")],
          ,location: '[parameters("location")],
          ,properties: "[guestConfiguration: {
            name: '[parameters("configurationName")],
            version: "1.*",
            configurationParameter: {
                name: "AuditShutDownSystemImmediatelyIfUnableToLogSecurityAudits"
            }
        },
        ,resources:
        - condition: "[equals(toLower(parameters('type')))",
          toLower(Microsoft.Compute/virtualMachines/extensions))]
          ,[apiVersion: '2019-07-
            01'],
          ,type: 'Microsoft.Compute/virtualMachines/extensions',
          ,identity: {
            type: "SystemAssigned",
            name: '[parameters('vm Name'))],
            location: '[parameters("location")],
            properties: {
                publisher: "Microsoft.GuestConfiguration",
                type: "ConfigurationForWindows",
                typeHandlerVersion: "1.1",
                autoUpgradeMinorVersion: true,
                settings: {},
                protectedSettings: {},
                dependsOn: ['[concat(Microsoft.Compute/virtualMachines/parameters('vmName')),'/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters("configurationName")]]]
            },
            name: "[concat(parameters('vmName'))],
            location: "[parameters("location")]
        }
    ]
}}}}}}

id: /[providers/Microsoft.Authorization/policy
Managed Control 1329 - Authenticator Management | Password-Based Authentication

Managed Control 1638 - Boundary Protection | Dynamic Isolation / Segregation

Managed Control 1294 - Information System Backup | Transfer To Alternate Storage

Open Source Used In SDWan 20.6.1 17773
Managed Control 1218 - Least Functionality | Prevent Program

Execution", policyType": "Static", mode": "Indexed", description": "Microsoft implements this Configuration Management control", metadata": {"version": "1.0.0", category": "Regulatory Compliance", additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1218"], policyRule": {"if": {"allOf": [{"field": "type", in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", equals": "true"]}], then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4a1d0394-b9f5-493e-9e83-563fd0ac4df8"}, type": "Microsoft.Authorization/policyDefinitions", name": "4a1d0394-b9f5-493e-9e83-563fd0ac4df8"}, {"properties": {"displayName": "Microsoft Managed Control 1677 - Malicious Code Protection", policyType": "Static", mode": "Indexed", description": "Microsoft implements this System and Information Integrity control", metadata": {"version": "1.0.0", category": "Regulatory Compliance", additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1677"], policyRule": {"if": {"allOf": [{"field": "type", in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", equals": "true"]}], then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4a248e1e-040f-43e5-bff2-afc3a57a3923"}, type": "Microsoft.Authorization/policyDefinitions", name": "4a248e1e-040f-43e5-bff2-afc3a57a3923"}, {"properties": {"displayName": "Microsoft Managed Control 1094 - Role-Based Security Training", policyType": "Static", mode": "Indexed", description": "Microsoft implements this Awareness and Training control", metadata": {"version": "1.0.0", category": "Regulatory Compliance", additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1094"], policyRule": {"if": {"allOf": [{"field": "type", in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", equals": "true"]}], then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4b1853e0-8973-446b-b567-09d901d31a09"}, type": "Microsoft.Authorization/policyDefinitions", name": "4b1853e0-8973-446b-b567-09d901d31a09"}, {"properties": {"displayName": "Azure Event Grid topics should use private links", policyType": "BuiltIn", mode": "Indexed", description": "Audit Azure Event Grid topics that do not have at least one approved private endpoint connection. Clients in a virtual network can securely access resources that have private endpoint connections via private links. For more information, visit https://aka.ms/privateendpoints."}, metadata": {"version": "1.0.0", category": "Event Grid"}, parameters": {"effect": {"type": "String"}, metadata": {"displayName": "Effect", description": "Enable or disable the execution of the policy"}, allowedValues": [{"Audit", "Disabled"}], defaultValue": "Audit"}], policyRule": {"if": {"allOf": [{"field": "type", equals": "Microsoft.EventGrid/topics"}, {"count": "Microsoft.EventGrid/topics/privateEndpointConnections[3]"}, {"where": {"field": "Microsoft.EventGrid/topics/privateEndpointConnections[*].privateLinkServiceConnectionState.status, equals": "Approved"}, "less": 1}], then": {"effect": ["parameters\("effect\)\]"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4b90e17e-8448-49db-875ebd83fb6f804f"}, type": "Microsoft.Authorization/policyDefinitions", name": "4b90e17e-8448-49db-875ebd83fb6f804f"}, {"properties": {"displayName": "Microsoft Managed Control 1114 - Response To Audit Processing Failures | Real-Time Alerts", policyType": "Static", mode": "Indexed", description": "Microsoft implements this Audit and Accountability control", metadata": {"version": "1.0.0", category": "Regulatory Compliance", additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1114"], policyRule

Open Source Used In SDWan 20.6.1 17774
Microsoft Managed Control 1364 - Incident Handling | Dynamic Reconfiguration

Management Control 1361 - Incident Handling | Deploy prerequisites to audit Linux VMs that do not have the specified applications installed,
initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol. MSD.
"/Microsoft.GuestConfiguration/", parameters("configurationName")], "location": "[parameters("location")]", "properties": 
{"guestConfiguration": ["name": "[parameters("configurationName")]", "version": "1.*", "configurationParameter": ["name": "[ChefInSpec]InstalledApplicationLinuxResource1;AttributesYmlContent", 
"value": 
[concat('packages:
 [replace(parameters("ApplicationName"), 
 "\";\"", 
 "\"
])
]"
]"}], "condition": 
[equals(toLower(parameters("type")), 
 toLower("Microsoft.Compute/virtualMachines")], 
"apiVersion": "2018-11-20", 
"type": "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", 
"name": [concat(parameters("vmName")], 
"location": [parameters("location")], 
"properties": 
{"guestConfiguration": ["name": "[parameters("configurationName")]", "version": "1.*", "configurationParameter": ["name": "[ChefInSpec]InstalledApplicationLinuxResource1;AttributesYmlContent", 
"value": 
[concat('packages:
 [replace(parameters("ApplicationName"), 
 "\";\"", 
 "\"
])
]"
]"]
], "condition": 
[equals(toLower(parameters("type")), 
 toLower("Microsoft.Compute/virtualMachines")], 
"apiVersion": "2019-07-01", 
"type": "Microsoft.Compute/virtualMachines", 
"identity": ["type": "SystemAssigned"], 
"name": [parameters("vmName")], 
"location": [parameters("location")], 
"condition": [equals(toLower(parameters("type")), 
 toLower("Microsoft.Compute/virtualMachines")], 
"apiVersion": "2015-05-01-preview", 
"name": [concat(parameters("vmName")], 
"/AzurePolicyforLinux"], 
"type": "Microsoft.Compute/virtualMachines/extensions", 
"location": [parameters("location")], 
"properties": ["publisher": "Microsoft.GuestConfiguration", 
"type": "ConfigurationforLinux", 
"typeHandlerVersion": "1.0.0", 
"autoUpgradeMinorVersion": true, 
"settings": {}, 
"protectedSettings": {}, 
"dependsOn": ["[concat("Microsoft.Compute/virtualMachines", 
parameters("vmName")], 
"providers/Microsoft.GuestConfiguration/guestConfigurationAssignments", 
parameters("configurationName")]]]"], 
"id": ["/providers/Microsoft.Authorization/policyDefinitions/4d1c04de-2172-403f-901b-90608c35c721", 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": 
"4d1c04de-2172-403f-901b-90608c35c721", 
"properties": ["displayName": "FTPS should be required in your Web App", 
"policyType": "BuiltIn", 
"mode": "Indexed", 
"description": "Enable FTPS enforcement for enhanced security", 
"metadata": ["version": "1.0.0", 
"category": "App Service"], 
"parameters": ["effect": ["type": "String", 
"metadata": ["displayName": "Effect", 
"description": "Enable or disable the execution of the policy"], 
"allowedValues": ["AuditIfNotExists", "Disabled"], 
"defaultValue": "AuditIfNotExists"]], 
"policyRule": ["if": ["allOf": ["field": "type", 
"equals": "Microsoft.Web/sites"], "field": "kind", "like": "app*"]], 
"then": ["effect": ["parameters("effect")", "details": ["type": "Microsoft.Web/sites/config", 
"name": "web", 
"existenceCondition": ["field": "Microsoft.Web/sites/config/ftpsState", 
"equals": "FtpsOnly"]]]], 
"id": ["/providers/Microsoft.Authorization/policyDefinitions/4d24b6d4-5e53-4a4f-a7f4-618fa573ee4b", 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": "4d24b6d4-5e53-4a4f-a7f4-618fa573ee4b", 
"properties": ["displayName": "Microsoft Managed Control 1155 - System Interconnections | Restrictions On External System Connections", 
"policyType": "Static", 
"mode": "Indexed", 
"description": "Microsoft implements this Security Assessment and Authorization control", 
"metadata": ["version": "1.0.0", 
"category": "Regulatory Compliance", 
"additionalMetadataId": ["/providers/Microsoft.PolicyInsights/policyMetadata/ACF1155"], 
"policyRule": ["if": ["allOf": ["field": "type", 
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], 
"value": "false", 
"equals": "true"]], 
"then": ["effect": "audit"]], 
"id": ["/providers/Microsoft.Authorization/policyDefinitions/4d33f9f1-12d0-46ad-9fbd-8f8046694977", 
"type": "Microsoft.Authorization/policyDefinitions", 
"name": "4d33f9f1-12d0-46ad-9fbd-8f8046694977"]}
}
Deploy Diagnostic Settings for Data Lake Analytics to Event Hub

- policyType: BuiltIn
- mode: Indexed
- description: "Deploys the diagnostic settings for Data Lake Analytics to stream to a regional Event Hub when any Data Lake Analytics which is missing this diagnostic settings is created or updated.",
- metadata: ":version": "2.0.0", ":category": "Monitoring", ":parameters": ":effect": "Enable or disable the execution of the policy",
- allowedValues: "[DeployIfNotExists, Disabled]", ":defaultValue": "DeployIfNotExists",
- profileName: "eventHubRuleId",
- description: "The Event Hub location."
- allowedValues: "[True, False]", ":defaultValue": "False",
- logsEnabled: "Enable metrics",
- description: "Whether to enable metrics stream to the Event Hub - True or False",
- metricsEnabled: "Enable"
logs", "description": "Whether to enable logs stream to the Event Hub - True or False", "allowedValues": ["True", "False"], "defaultValue": "True" }, "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "Microsoft.DataLakeAnalytics/accounts" }, { "anyOf": [ { "value": [parameters('eventHubLocation')], "equals": "" }, { "field": "location", "equals": [parameters('eventHubLocation')] } ] } ] }, "then": { "effect": [parameters('effect')] }, "details": { "type": "Microsoft.Insights/diagnosticSettings", "name": [parameters('profileName')], "existenceCondition": { "allOf": [ { "field": "Microsoft.Insights/diagnosticSettings/logs.enabled", "equals": [parameters('logsEnabled')] }, { "field": "Microsoft.Insights/diagnosticSettings/metrics.enabled", "equals": [parameters('metricsEnabled')] } ] }, "roleDefinitionIds": [ "providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-207382dd24e" ], "deployment": { "properties": { "mode": "incremental", "template": "$schema": http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#/", "contentVersion": "1.0.0.0", "parameters": { "resourceName": { "type": "string" }, "location": { "type": "string" }, "eventHubRuleId": { "type": "string" }, "metricsEnabled": { "type": "string" }, "logsEnabled": { "type": "string" }, "profileName": { "type": "string" } }, "variables": {}, "resources": [ { "type": "Microsoft.DataLakeAnalytics/accounts/providers/diagnosticSettings", "apiVersion": "2017-05-01-preview", "name": [concat(parameters('resourceName'), "/" , "Microsoft.Insights/" , parameters('profileName'))], "location": [parameters('location')], "dependsOn": [], "properties": { "eventHubAuthorizationRuleId": [parameters('eventHubRuleId')], "metrics": [ { "category": "AllMetrics", "enabled": [parameters('metricsEnabled')] }, { "category": "Requests", "enabled": [parameters('logsEnabled')] } ], "logRetentionPolicy": [ { "enabled": false, "days": 0 } ], "logs": [ { "category": "Audit", "enabled": [parameters('logsEnabled')] } ], "category": "Audit", "enabled": [parameters('logsEnabled')] } ], "outputs": { }, "parameters": { "location": [parameters('location')], "resourceName": [parameters('resourceName')], "eventHubRuleId": [parameters('eventHubRuleId')], "metrics": [parameters('metricsEnabled')], "logs": [parameters('logsEnabled')], "profileName": [parameters('profileName')] } ] } ], "id": "/providers/Microsoft.Authorization/policyDefinitions/4daddf25-4823-43d4-88eb-2419eb6ddc08", "type": "Microsoft.Authorization/policyDefinitions", "name": "4daddf25-4823-43d4-88eb-2419eb6ddc08" }, { "properties": { "displayName": "Microsoft Managed Control 1394 - System Maintenance Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance" }, "additionalMetadataId": ["providers/Microsoft.PolicyInsights/policyMetadata/ACF1394" ], "policyRule": { "if": { "allOf": [ { "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "audit" } }, "id": ["providers/Microsoft.Authorization/policyDefinitions/4db56f68-3f50-45ab-88f3-ca46f5379a94" ], "type": "Microsoft.Authorization/policyDefinitions", "name": "4db56f68-3f50-45ab-88f3-ca46f5379a94" }, { "properties": { "displayName": "Microsoft Managed Control 1702 - Information System Monitoring | Indicators Of Compromise", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": { "version": "1.0.0", "category": "Regulatory Compliance" }, "additionalMetadataId": ["providers/Microsoft.PolicyInsights/policyMetadata/ACF1702" ], "policyRule": { "if": { "allOf": [ { "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "audit" } }, "id": ["providers/Microsoft.Authorization/policyDefinitions/4dfc0855-92c4-4641-b155-a55dd962362" ], "type": "Microsoft.Authorization/policyDefinitions", "name": "4dfc0855-92c4-4641-b155-a55dd962362" }, { "properties": { "displayName": "Microsoft Managed Control 1001 - Access Control Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this Access Control control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1001"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]), "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4e26f8c3-4bf3-4191-b8fc-d88805101b7", "type": "Microsoft.Authorization/policyDefinitions", "name": "4e26f8c3-4bf3-4191-b8fc-d88805101b7", "properties": {"displayName": "Microsoft Managed Control 1083 - Publicly Accessible Content", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1083"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]), "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4e319cb6-2ca3-4a58-ad75-e67f484e50ec", "type": "Microsoft.Authorization/policyDefinitions", "name": "4e319cb6-2ca3-4a58-ad75-e67f484e50ec", "properties": {"displayName": "Microsoft Managed Control 1579 - Acquisition Process | Use Of Approved Piv Products", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1579"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]), "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4e54c7ef-7457-430b-9a3e-ef8881d4a8e0", "type": "Microsoft.Authorization/policyDefinitions", "name": "4e54c7ef-7457-430b-9a3e-ef8881d4a8e0", "properties": {"displayName": "Microsoft Managed Control 1247 - Contingency Plan", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1247"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]), "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4e666db5-b2ef-4b06-aac6-09bfee49151b", "type": "Microsoft.Authorization/policyDefinitions", "name": "4e666db5-b2ef-4b06-aac6-09bfee49151b", "properties": {"displayName": "Microsoft Managed Control 1196 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1196"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]), "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/4e7f4ea4-dd62-44f6-8886-ac6137cf52b0", "type": "Microsoft.Authorization/policyDefinitions", "name": "4e7f4ea4-dd62-44f6-8886-ac6137cf52b0", "properties": {"displayName": "Microsoft Managed Control 1134 - Protection Of Audit Information | Access By Subset Of Privileged Users", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1134"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]), "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/
Managed Control 1267 - Alternate Storage

Site

Managed Control 1192 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes

Managed Control 1139 - Audit Generation

A maximum of 3 owners should be designated for your subscription

Managed Control 1442 - Media Sanitization | Nondestructive Techniques
Managed Control 1182 - Baseline Configuration | Configure Systems, Components, Or Devices For High-Risk Areas, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control","metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1182" }, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, "then": {"effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/4f26049b-2c5a-4841-9ff3-d48a26aae475", "type": "Microsoft.Authorization/policyDefinitions", "name": "/providers/Microsoft.Authorization/policyDefinitions/4f26049b-2c5a-4841-9ff3-d48a26aae475", "properties": {"displayName": "Microsoft
security contact email address should be provided for your subscription," "policyType": "BuiltIn", "mode": "All", "description": "Enter an email address to receive notifications when Azure Security Center detects compromised resources." }, "metadata": {"version": "1.0.0", "category": "Security Center" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": ["AuditIfNotExists", "Disabled" ], "defaultValue": "AuditIfNotExists" } }, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Resources/subscriptions" }, "then": {"effect": "[parameters('effect')]", "details": {"type": "Microsoft.Security/securityContacts", "existenceCondition": {"field": "Microsoft.Security/securityContacts/email", "notEquals": "" } } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/4f34f554-da4b-4786-8d66-7915c90893da", "type": "Microsoft.Authorization/policyDefinitions", "name": "/providers/Microsoft.Authorization/policyDefinitions/4f34f554-da4b-4786-8d66-7915c90893da", "properties": {"displayName": "Add a tag to resources," "policyType": "BuiltIn", "mode": "Indexed", "description": "Adds the specified tag and value when any resource missing this tag is created or updated. Existing resources can be remediated by triggering a remediation task. If the tag exists with a different value it will not be changed. Does not modify tags on resource groups." }, "metadata": {"version": "1.0.0", "category": "Tags" }, "parameters": {"tagName": {"type": "String", "metadata": {"displayName": "Tag Name", "description": "Name of the tag, such as "environment"" } }, "tagValue": {"type": "String", "metadata": {"displayName": "Tag Value", "description": "Value of the tag, such as "production"" } } }, "policyRule": {"if": {"field": [concat('tags[', parameters('tagName'), ']')], "exists": false }, "then": {"effect": "modify", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c" ], "operations": ["operation": "add", "field": [concat('tags[', parameters('tagName')], "["]) ] } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/4f9dc7db-30c1-420c-b61a-e1d640128d26", "type": "Microsoft.Authorization/policyDefinitions", "name": "/providers/Microsoft.Authorization/policyDefinitions/4f9dc7db-30c1-420c-b61a-e1d640128d26", "properties": {"displayName": "[Preview]
Vulnerability Assessment should be enabled on Virtual Machines," "policyType": "BuiltIn", "mode": "All", "description": "Monitors vulnerabilities detected by Azure Security Center Vulnerability Assessment on Virtual Machines." }, "metadata": {"version": "1.0.0-preview", "category": "Security Center", "preview": true }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Preview]" }} } }
Managed Control 1485 - Delivery And Removal

- **policyType**: Static, **mode**: Indexed, **description**: Microsoft implements this Physical and Environmental Protection control.

- **properties**:
  - **displayName**: Microsoft Managed Control 1485 - Delivery And Removal
  - **policyType**: Static
  - **mode**: Indexed
  - **description**: Microsoft implements this Physical and Environmental Protection control.
  - **metadata**:
    - **version**: 1.0.0
    - **category**: Regulatory Compliance
  - **additionalMetadataId**: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1485
  - **policyRule**:
    - **if**: 
      - **allOf**:
        - **field**: type
        - **value**: false
        - **equals**: true
    - **then**:
      - **effect**: audit

Managed Control 1646 - Cryptographic Key Establishment And Management | Asymmetric Keys

- **policyType**: Static, **mode**: Indexed, **description**: Microsoft implements this System and Communications Protection control.

- **properties**:
  - **displayName**: Microsoft Managed Control 1646 - Cryptographic Key Establishment And Management | Asymmetric Keys
  - **policyType**: Static
  - **mode**: Indexed
  - **description**: Microsoft implements this System and Communications Protection control.
  - **metadata**:
    - **version**: 1.0.0
    - **category**: Regulatory Compliance
  - **additionalMetadataId**: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1646
  - **policyRule**:
    - **if**: 
      - **allOf**:
        - **field**: type
        - **in**: ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
        - **value**: false
        - **equals**: true
    - **then**:
      - **effect**: audit

Managed Control 1566 - System Development Life Cycle

- **policyType**: Static, **mode**: Indexed, **description**: Microsoft implements this System and Services Acquisition control.

- **properties**:
  - **displayName**: Microsoft Managed Control 1566 - System Development Life Cycle
  - **policyType**: Static
  - **mode**: Indexed
  - **description**: Microsoft implements this System and Services Acquisition control.
  - **metadata**:
    - **version**: 1.0.0
    - **category**: Regulatory Compliance
  - **additionalMetadataId**: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1566
  - **policyRule**:
    - **if**: 
      - **allOf**:
        - **field**: type
        - **in**: ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
        - **value**: false
        - **equals**: true
    - **then**:
      - **effect**: audit

A custom IPsec/IKE policy must be applied to all Azure virtual network gateway connections.

- **policyType**: BuiltIn
- **mode**: All
- **description**: This policy ensures that all Azure virtual network gateway connections use a custom Internet Protocol Security(IPsec)/Internet Key Exchange(IKE) policy. Supported algorithm and key strengths - https://aka.ms/AA62kb0

- **properties**:
  - **displayName**: A custom IPsec/IKE policy must be applied to all Azure virtual network gateway connections
  - **policyType**: BuiltIn
  - **mode**: All
  - **description**: This policy ensures that all Azure virtual network gateway connections use a custom Internet Protocol Security(IPsec)/Internet Key Exchange(IKE) policy. Supported algorithm and key strengths - https://aka.ms/AA62kb0

- **parameters**:
  - **effect**: String
    - **metadata**:
      - **version**: 1.0.0
      - **category**: Network
    - **parameters**:
      - **displayField**: Effect
      - **description**: Enable or disable the execution of the policy
      - **allowedValues**:
        - Audit
        - Disabled
      - **defaultValue**: Audit
      - **IPsecEncryption**: Array
      - **metadata**:
        - **displayField**: IPsec Encryption
        - **description**: IPsec
Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1642"}, "policyRule": 
{"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, 
{"value": false, "equals": true}], "then": [{"effect": "audit"}]}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/53397227-5ee3-4b23-9e5e-c8a767ce6928"}, "type": 
"Microsoft.Authorization/policyDefinitions", "name": 
"53397227-5ee3-4b23-9e5e-c8a767ce6928"}, 
"properties": [{"displayName": "Connection throttling should be enabled for PostgreSQL database servers", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy helps audit any PostgreSQL databases in your environment without Connection throttling enabled. This setting enables temporary connection throttling per IP for too many invalid password login failures.", "metadata": {"version": "1.0.0", "category": "SQL"}, 
"parameters": [{"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}], "policyRule": 
{"if": [{"field": "type", "equals": "Microsoft.DBforPostgreSQL/servers"}, "then": [{"parameters": 
"effect"}], "details": [{"field": "Microsoft.DBforPostgreSQL/servers/configurations", "name": "connection_throttling", "existenceCondition": 
{"value": false, "equals": true}], "then": [{"effect": 
"audit"}]}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/5345bb39-67dc-4960-a1bf-427e16b9a0bd", "type": 
"Microsoft.Authorization/policyDefinitions", "name": 
"5345bb39-67dc-4960-a1bf-427e16b9a0bd"}, 
"properties": [{"displayName": "Microsoft Managed Control 1467 - Visitor Access Records", "policyType": 
"Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {"version": 
"1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1467"}, 
"policyRule": 
{"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, 
{"value": false, "equals": true}], "then": [{"effect": "audit"}]}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/5350cbf9-8bdd-4904-b22a-e88be84ca49d"}, 
"type": 
"Microsoft.Authorization/policyDefinitions", "name": 
"5350cbf9-8bdd-4904-b22a-e88be84ca49d"}, 
"properties": [{"displayName": "Microsoft Managed Control 1183 - Baseline Configuration | Configure Systems, Components, Or Devices For High-Risk Areas", 
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": 
"1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1183"}, 
"policyRule": 
{"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, 
{"value": false, "equals": true}], "then": [{"effect": "audit"}]}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/5352e3e0-e63a-452e-9e5f-9c1d181cf99c", "type": 
"Microsoft.Authorization/policyDefinitions", "name": 
"5352e3e0-e63a-452e-9e5f-9c1d181cf99c"}, 
"properties": [{"displayName": "Microsoft Managed Control 1029 - Information Flow Enforcement | Security Policy Filters", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": 
"1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1029"}, 
"policyRule": 
{"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, 
{"value": false, "equals": true}], "then": [{"effect": "audit"}]}, 
"id": "/providers/Microsoft.Authorization/policyDefinitions/53ac8f8e-c2b5-4d44-8a2d-058e9ed9b69", "type": 
"Microsoft.Authorization/policyDefinitions", "name": 
"53ac8f8e-c2b5-4d44-8a2d-058e9ed9b69"}]

Open Source Used In SDWan 20.6.1 17786
Managed Control 1270 - Alternate Storage Site | Recovery Time / Point

Objectives, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1270" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/53c76a39-2097-408a-b237-b279f7b4614d" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "53c76a39-2097-408a-b237-b279f7b4614d" }, {"properties": {"displayName": "Microsoft Managed Control 1270 - Alternate Storage Site | Recovery Time / Point Objectives", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1270" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/53c76a39-2097-408a-b237-b279f7b4614d" }, {"properties": {"displayName": "Microsoft Managed Control 1040 - Least Privilege | Review Of User Privileges", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1040" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/54205576-cec9-463f-ba44-b4b3f5d0a84c" }, {"properties": {"displayName": "Microsoft Managed Control 1015 - Account Management | Disable Inactive Accounts", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1015" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/544a208a-9c3f-40bc-b1d1-d7e144495c14" }, {"properties": {"displayName": "Microsoft Managed Control 1026 - Account Management | Disable Accounts For High-Risk Individuals", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1026" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/55419419-c597-4cd4-b51e-009fd2266783" }, {"properties": {"displayName": "Microsoft Managed Control 1045 - Unsuccessful Logon Attempts", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1045" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/554d2dd6-f3a8-4ad5-b66f-5ce23bd18892" }, {"properties": {"displayName": "Microsoft Managed Control 1523 - Personnel Transfer", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1523" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/554d2dd6-f3a8-4ad5-b66f-5ce23bd18892" }, {"properties": {"displayName": "Microsoft Managed Control 1040 - Least Privilege | Review Of User Privileges", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1040" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/54205576-cec9-463f-ba44-b4b3f5d0a84c" }, {"properties": {"displayName": "Microsoft Managed Control 1015 - Account Management | Disable Inactive Accounts", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1015" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/544a208a-9c3f-40bc-b1d1-d7e144495c14" }, {"properties": {"displayName": "Microsoft Managed Control 1026 - Account Management | Disable Accounts For High-Risk Individuals", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1026" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/55419419-c597-4cd4-b51e-009fd2266783" }, {"properties": {"displayName": "Microsoft Managed Control 1045 - Unsuccessful Logon Attempts", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1045" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/554d2dd6-f3a8-4ad5-b66f-5ce23bd18892" }, {"properties": {"displayName": "Microsoft Managed Control 1523 - Personnel Transfer", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1523" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }]}, "then": {"effect": audit }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/554d2dd6-f3a8-4ad5-b66f-5ce23bd18892" }}
Managed Control 1113 - Response To Audit Processing Failures | Audit Storage Capacity
"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{}},
Managed Control 1212 - Configuration Settings | Automated Central Management
"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":{}},
Managed Control 1403 - Controlled Maintenance | Automated Maintenance Activities
"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Maintenance control","metadata":{}},
CORS should not allow every resource to access your Web Applications
"policyType":"BuiltIn","mode":"Indexed","description":"Cross-Origin Resource Sharing (CORS) should not allow all domains to access your web application.
Allow only required domains to interact with your web app.
"parameters":{},
Managed Control 1162 - Continuous Monitoring
"policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Security Assessment and Authorization control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1162"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":audit}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5770f3d6-8c2b-4f6f-bf0e-c8e8fc36d592"},"type":"Microsoft.Authorization/policyDefinitions","name":5770f3d6-8c2b-4f6f-bf0e-c8e8fc36d592","properties":{"displayName":Microsoft Managed Control 1054 - Session Termination","policyType":"Static","mode":"Indexed","description":Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1054"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":audit}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5807e1b4-ba5e-4718-8689-a0ca05a191b2"},"type":"Microsoft.Authorization/policyDefinitions","name":5807e1b4-ba5e-4718-8689-a0ca05a191b2","properties":{"displayName":Microsoft Managed Control 1584 - Information System Documentation","policyType":"Static","mode":"Indexed","description":Microsoft implements this System and Services Acquisition control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1584"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":audit}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5864522b-ff1d-4979-a9f8-58bfee1b174c"},"type":"Microsoft.Authorization/policyDefinitions","name":5864522b-ff1d-4979-a9f8-58bfee1b174c","properties":{"displayName":Microsoft Managed Control 1547 - Vulnerability Scanning","policyType":"Static","mode":"Indexed","description":Microsoft implements this Risk Assessment control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1547"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":audit}},"id":"/providers/Microsoft.Authorization/policyDefinitions/58abf98c-c6d4-4b4b-bfb9-fe98fe295f52"},"type":"Microsoft.Authorization/policyDefinitions","name":58abf98c-c6d4-4b4b-bfb9-fe98fe295f52","properties":{"displayName":Microsoft Managed Control 1573 - Acquisition Process","policyType":"Static","mode":"Indexed","description":Microsoft implements this System and Services Acquisition control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1573"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":audit}},"id":"/providers/Microsoft.Authorization/policyDefinitions/58e93053-7b98-4cf0-b99f-1beb985416c2"},"type":"Microsoft.Authorization/policyDefinitions","name":58e93053-7b98-4cf0-b99f-1beb985416c2","properties":{"displayName":Microsoft Open Source Used In SDWan 20.6.1 17789

Ensure Function app is using the latest version of TLS encryption","policyType":"BuiltIn","mode":"Indexed","description":"Please
use /providers/Microsoft.Authorization/policyDefinitions/f9d614c5-c173-4d56-95a7-b4437057d193 instead. The TLS (Transport Layer Security) protocol secures transmission of data over the internet using standard encryption technology. Encryption should be set with the latest version of TLS. App service allows TLS 1.2 by default, which is the recommended TLS level by industry standards, such as PCI DSS. "metadata": {"version": "1.0.0-deprecated", "category": "App Service", "deprecated": true }, "parameters": [{"effect": "["type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}], "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"] }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "functionapp*"}]}, "then": {"effect": "[parameters("effect")]", "details": {"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"field": "Microsoft.Web/sites/config/web.minTlsVersion", "equals": "1.2"] } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/58d94fc1-a072-47c2-bd37-9cdb38e77453", "type": "/Microsoft.Authorization/policyDefinitions", "name": "58d94fc1-a072-47c2-bd37-9cdb38e77453" }, {"properties": {"displayName": "Microsoft Managed Control 1063 - Remote Access | Managed Access Control Points", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1063" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }, "then": {"effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/593ce201-54b2-4dd0-b34f-c308005d7780", "type": "/Microsoft.Authorization/policyDefinitions", "name": "593ce201-54b2-4dd0-b34f-c308005d7780" }, {"properties": {"displayName": "Microsoft Managed Control 1463 - Monitoring Physical Access", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1463" } }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }, "then": {"effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/59721f87-ae25-4db0-a2a4-77cc5b25d495", "type": "/Microsoft.Authorization/policyDefinitions", "name": "59721f87-ae25-4db0-a2a4-77cc5b25d495" }, {"properties": {"displayName": "Microsoft Managed Control 1425 - Timely Maintenance", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1425" } } }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }, "then": {"effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/5983d99c-f39b-4c32-a3dc-170f19f6941b", "type": "/Microsoft.Authorization/policyDefinitions", "name": "5983d99c-f39b-4c32-a3dc-170f19f6941b" }, {"properties": {"displayName": "Microsoft Managed Control 1512 - Personnel Screening", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1512" } }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }, "then": {"effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/59d94fc1-a072-47c2-bd37-9cdb38e77453", "type": "/Microsoft.Authorization/policyDefinitions", "name": "58d94fc1-a072-47c2-bd37-9cdb38e77453" }, {"properties": {"displayName": "Microsoft Managed Control 1235 - Performing Periodic Penetration Testing", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Penetration Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1235" } } }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }, "then": {"effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/59f33503-273d-4fcb-b3fc-170f19f6941b", "type": "/Microsoft.Authorization/policyDefinitions", "name": "59f33503-273d-4fcb-b3fc-170f19f6941b" }, {"properties": {"displayName": "Microsoft Managed Control 1475 - Application Development Security", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Development Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1475" } } }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }, "then": {"effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/59f33503-273d-4fcb-b3fc-170f19f6941b", "type": "/Microsoft.Authorization/policyDefinitions", "name": "59f33503-273d-4fcb-b3fc-170f19f6941b" }, {"properties": {"displayName": "Microsoft Managed Control 1485 - Confidentiality", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Confidentiality control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1485" } } }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }, "then": {"effect": "audit" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/59f33503-273d-4fcb-b3fc-170f19f6941b", "type": "/Microsoft.Author
Show audit results from Windows VMs that do not have a minimum password age of 1 day, "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative.

This definition allows Azure Policy to process the results of auditing Windows virtual machines that do not have a minimum password age of 1 day. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"
Show audit results from Windows VMs that do not restrict the minimum password length to 14 characters. This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that do not restrict the minimum password length to 14 characters. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1005 - Account

Microsoft implements this Access Control control, metadata:

- Access Control Compliance, additionalMetadataId:
  providers/Microsoft.PolicyInsights/policyMetadata/ACF1005
- policyRule:

  - if:
    - allOf:
      - field:
        - type,
      - includes:
        - Microsoft.Resources/subscriptions,
        - Microsoft.Resources/subscriptions/resourceGroups
    - then:
      - effect:
        - audit

- properties:

  - displayName:
    - Microsoft Managed Control 1005 - Account Management
  - policyType:
    - Static
  - mode:
    - Indexed
  - description:
    - Microsoft implements this Access Control control
  - Regulatory Compliance, additionalMetadataId:
    providers/Microsoft.PolicyInsights/policyMetadata/ACF1005
  - policyRule:

    - if:
      - allOf:
        - field:
          - type,
        - includes:
          - Microsoft.Resources/subscriptions,
          - Microsoft.Resources/subscriptions/resourceGroups
      - then:
        - effect:
          - audit

- id:
  /providers/Microsoft.Authorization/policyDefinitions/5b070cab-0fb8-4e48-ad29-fe90b4c2797c
- type:
  Microsoft.Authorization/policyDefinitions
- name:
  Microsoft.Authorization/policyDefinitions name:
  5b070cab-0fb8-4e48-ad29-fe90b4c2797c
- properties:

  - displayName:
    - Microsoft Managed Control 1005 - Account Management
  - policyType:
    - Static
  - mode:
    - Indexed
  - description:
    - Microsoft implements this Access Control control
  - Regulatory Compliance, additionalMetadataId:
    providers/Microsoft.PolicyInsights/policyMetadata/ACF1005
  - policyRule:

    - if:
      - allOf:
        - field:
          - type,
        - includes:
          - Microsoft.Resources/subscriptions,
          - Microsoft.Resources/subscriptions/resourceGroups
      - then:
        - effect:
          - audit

- id:
  /providers/Microsoft.Authorization/policyDefinitions/5b626abc-26d4-4e22-9de8-383181526b1
- type:
  Microsoft.Authorization/policyDefinitions
- name:
  Microsoft.Authorization/policyDefinitions name:
  5b626abc-26d4-4e22-9de8-383181526b1
- properties:

  - displayName:
    - Microsoft Managed Control 1105 - Audit Events
  - policyType:
    - Static
  - mode:
    - Indexed
  - description:
    - Microsoft implements this Audit and Accountability control
  - Regulatory Compliance, additionalMetadataId:
    providers/Microsoft.PolicyInsights/policyMetadata/ACF1105
  - policyRule:

    - if:
      - allOf:
        - field:
          - type,
        - includes:
          - Microsoft.Resources/subscriptions,
          - Microsoft.Resources/subscriptions/resourceGroups
      - then:
        - effect:
          - audit

- id:
  /providers/Microsoft.Authorization/policyDefinitions/5b73f57b-587d-4470-a344-0b0ae805f459
- type:
  Microsoft.Authorization/policyDefinitions
- name:
  Microsoft.Authorization/policyDefinitions name:
  5b73f57b-587d-4470-a344-0b0ae805f459
- properties:

  - displayName:
    - Show audit results from Linux VMs that have the specified applications installed
  - policyType:
    - BuiltIn
  - mode:
    - All
  - description:
    - "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Linux virtual machines that have the specified applications installed.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol/
Managed Control 1433 - Media Transport

Microsoft implements this Media Protection control, "Microsoft Managed Control 1433 - Media Transport", policyType: "Static", mode: "Indexed", description: "Microsoft implements this Media Protection control", additionalMetadataId: "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1433", policyRule:

- "if": {
  "allOf": [
    {
      "field": "Microsoft.Compute/imageOffer", "like": "linux*"
    },
    {
      "field": "Microsoft.Compute/virtualMachines/osProfile/linuxConfiguration", "exists": "true"
    },
    {
      "field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType", "like": "Linux*"
    },
    {
      "anyOf": [{
        "field": "Microsoft.Compute/imagePublisher", "exists": "false"
      },
      {
        "field": "Microsoft.Compute/imagePublisher", "notIn": ["OpenLogic", "RedHat", "credativ", "Suse", "Canonical", "microsoft-ads"]
      }]
    }
  ]
},

- "then": {
  "effect": "auditIfNotExists",
  "details": {
    "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments",
    "name": "not_installed_application_linux",
    "existenceCondition": {
      "field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus",
      "equals": "Compliant"
    }
  }
},

- "id": "/providers/Microsoft.Authorization/policyDefinitions/5b842acb-0fe7-41b0-9f40-880ec4ad84d8",

- "properties": {
  "displayName": "Microsoft Managed Control 1433 - Media Transport",
  "policyType": "Static",
  "mode": "Indexed",
  "description": "Microsoft implements this Media Protection control",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1433",
  "policyRule": {
    "if": {
      "allOf": [
        {
          "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft/Resources/subscriptions/resourceGroups"]
        },
        {
          "value": "false",
          "equals": "true"
        }
      ]
    },
    "then": {
      "effect": "audit"
    }
  }
}

Registries should be encrypted with a Customer-Managed Key

Container Registries that do not have encryption enabled with Customer-Managed Keys (CMK). For more information on CMK encryption, please visit: https://aka.ms/acr/CMK

Registries that do not have encryption enabled with Customer-Managed Keys (CMK).

- "if": {
  "allOf": [
    {
      "field": "type", "in": ["Microsoft.ContainerRegistry/registries"]
    },
    {
      "not": {
        "field": "Microsoft.ContainerRegistry/registries/encryptionStatus",
        "equals": "enabled"
      }
    }
  ]
},

- "then": {
  "effect": "[parameters(''effect'')]
  
  WEB app has "Client Certificates (Incoming client certificates)" set to "On"
  "policyType": "BuiltIn",
  "mode": "Indexed",
  "description": "Client certificates allow for the app to request a certificate for incoming requests. Only clients that have a valid certificate will be able to reach the app",
  "metadata": {
    "version": "1.0.0",
    "category": "App Service"
  }
},

- "parameters": {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "Effect",
      "description": "Enable or disable the execution of the policy"
    }
  },
  "allowedValues": ["Audit", "Disabled"],
  "defaultValue": "Audit"
},

- "policyRule": {
  "if": {
    "allOf": [
      {
        "field": "type",
        "equals": "Microsoft.Web/sites/sites"
      },
      {
        "field": "kind",
        "like": "app"
      },
      {
        "field": "Microsoft.Web/sites/clientCertEnabled",
        "equals": "false"
      }
    ]
  },
  "then": {
    "effect": "[parameters(''effect'')]
  }
},

- "id": "/providers/Microsoft.Authorization/policyDefinitions/5b9159ae-1701-4a6f-9a7a-aa9c8ddd0580",

- "properties": {
  "displayName": "Container Registries should be encrypted with a Customer-Managed Key (CMK)",
  "policyType": "BuiltIn",
  "mode": "Indexed",
  "description": "Audit Container Registries that do not have encryption enabled with Customer-Managed Keys (CMK). For more information on CMK encryption, please visit: https://aka.ms/acr/CMK",
  "metadata": {
    "version": "1.0.0",
    "category": "Container Registry"
  }
},

- "parameters": {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "Effect",
      "description": "Enable or disable the execution of the policy"
    }
  },
  "allowedValues": ["Audit", "Disabled"],
  "defaultValue": "Audit"
},

- "policyRule": {
  "if": {
    "allOf": [
      {
        "field": "type",
        "equals": "Microsoft.ContainerRegistry/registries"
      },
      {
        "not": {
          "field": "Microsoft.ContainerRegistry/registries/encryptionStatus",
          "equals": "enabled"
        }
      }
    ]
  },
  "then": {
    "effect": "[parameters(''effect'')]
  }
},

- "id": "/providers/Microsoft.Authorization/policyDefinitions/5b9159ae-1701-4a6f-9a7a-aa9c8ddd0580",

- "properties": {
  "displayName": "Ensure WEB app has "Client Certificates (Incoming client certificates)" set to "On"
  "policyType": "BuiltIn",
  "mode": "Indexed",
  "description": "Client certificates allow for the app to request a certificate for incoming requests. Only clients that have a valid certificate will be able to reach the app",
  "metadata": {
    "version": "1.0.0",
    "category": "App Service"
  }
},

- "parameters": {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "Effect",
      "description": "Enable or disable the execution of the policy"
    }
  },
  "allowedValues": ["Audit", "Disabled"],
  "defaultValue": "Audit"
},

- "policyRule": {
  "if": {
    "allOf": [
      {
        "field": "type",
        "equals": "Microsoft.Web/sites/sites"
      },
      {
        "field": "kind",
        "like": "app"
      },
      {
        "field": "Microsoft.Web/sites/clientCertEnabled",
        "equals": "false"
      }
    ]
  },
  "then": {
    "effect": "[parameters(''effect'')]
  }
},

- "id": "/providers/Microsoft.Authorization/policyDefinitions/5b9159ae-1701-4a6f-9a7a-aa9c8ddd0580",

- "properties": {
  "displayName": "Ensure WEB app has "Client Certificates (Incoming client certificates)" set to "On"
  "policyType": "BuiltIn",
  "mode": "Indexed",
  "description": "Client certificates allow for the app to request a certificate for incoming requests. Only clients that have a valid certificate will be able to reach the app",
  "metadata": {
    "version": "1.0.0",
    "category": "App Service"
  }
},

- "parameters": {
  "effect": {
    "type": "String",
    "metadata": {
      "displayName": "Effect",
      "description": "Enable or disable the execution of the policy"
    }
  },
  "allowedValues": ["Audit", "Disabled"],
  "defaultValue": "Audit"
},

- "policyRule": {
  "if": {
    "allOf": [
      {
        "field": "type",
        "equals": "Microsoft.Web/sites/sites"
      },
      {
        "field": "kind",
        "like": "app"
      },
      {
        "field": "Microsoft.Web/sites/clientCertEnabled",
        "equals": "false"
      }
    ]
  },
  "then": {
    "effect": "[parameters(''effect'')]
  }
},

- "id": "/providers/Microsoft.Authorization/policyDefinitions/5b9159ae-1701-4a6f-9a7a-aa9c8ddd0580",

- "properties": {
  "displayName": "Preview: Deploy prerequisites to audit Windows VMs on which the remote host connection status does not match the specified one",
  "policyType": "BuiltIn",
  "mode": "Indexed",
  "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines"
Remote Host Name\textasciitilde{} specifies the Domain Name System (DNS) name or IP address of the remote host machine."

Should connect to remote host\textasciitilde{} must be "True" or "False". "True" indicates that the virtual machine should be able to establish a connection with the remote host specified, so the machine will be non-compliant if it cannot establish a connection. "False" indicates that the virtual machine should not be able to establish a connection with the remote host specified, so the machine will be non-compliant if it can establish a connection.

```json
"parameters": {
  "host": {
    "type": "String",
    "metadata": {
      "displayName": "[Preview]: Remote Host Name",
      "description": "Specifies the Domain Name System (DNS) name or IP address of the remote host machine."
    }
  },
  "port": {
    "type": "String",
    "metadata": {
      "displayName": "[Preview]: Port",
      "description": "The TCP port number on the remote host name."
    }
  },
  "shouldConnect": {
    "type": "String",
    "metadata": {
      "displayName": "[Preview]: Should connect to remote host",
      "description": "Must be "True" or "False". "True" indicates that the virtual machine should be able to establish a connection with the remote host specified, so the machine will be non-compliant if it cannot establish a connection. "False" indicates that the virtual machine should not be able to establish a connection with the remote host specified, so the machine will be non-compliant if it can establish a connection."
    }
  }
},

"policyRule": {
  "if": {
    "anyOf": [
      {
        "allOf": [
          {
            "field": "type",
            "equals": "Microsoft.Compute/virtualMachines"
          },
          {
            "anyOf": [
              {
                "field": "Microsoft.Compute/imagePublisher",
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "MicrosoftWindowsServer"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "MicrosoftSQLServer"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "microsoft-dsvm"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "msads"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "bosh-windows-server"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "cloud-infrastructure-services"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "center-for-internet-security-inc"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "cis-windows-server-2016"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "pivotal"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "bosh-windows-server"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "cloud-infrastructure-services"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "center-for-internet-security-inc"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "cis-windows-server-2016"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "pivotal"
              },
              {
                "field": "Microsoft.Compute/imagePublisher",
                "equals": "bosh-windows-server"
              }
        }
      }
    ]
  }
  "then": {
    "effect": "deployIfNotExists",
    "details": {
      "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"]
    },
    "contains": {
      "parameters": ["host", "port", "shouldConnect"]
    }
  }
}
value":"[{\"field\"\"name\"\")\",\"location\":{\"value\":{\"field\"\"location\"\")\",\"type\":{\"value\":{\"field\"\"type\"\")\",\"configuration Name\":{\"value\":\"WindowsRemoteConnection\"\",\"host\":{\"value\":{\"parameters\"\"host\"\")\",\"port\":{\"value\":{\"parameters\"\"port\"\")\",\"shouldConnect\":{\"value\":{\"parameters\"\"shouldConnect\"\")\")\",\"template\":{\"$schema\":\"https://schema .management.azure.com/schemas/2015-01-01/deploymentTemplate.json\"\",\"contentVersion\":\"1.0.0.0\",\"parameters\":{\"vmName\":{\"type\":\"string\"\",\"location\":{\"type\":\"string\"\",\"configurationName\":{\"type\":\"string\"\",\"host\":{\"type\":\"string\"\",\"port\":{\"type\":\"string\"\",\"shouldConnect\":{\"type\":\"string\"\")\",\"resources\":{\"condition\":{\"equals\":{\"toLower\":{\"parameters\"\"type\"\")\",\"toLower\":{\"parameters\"\"vmName\"\")\",\"properties\":{\"guestConfiguration\":{\"name\":{\"parameters\"\"configurationName\"\",\"version\":\"1.*\",\"configurationParameter\":{\"name\":\"WindowsRemoteConnection\"\",\"host\":{\"parameters\"\"host\"\")\",\"port\":{\"parameters\"\"port\"\")\",\"shouldConnect\":{\"parameters\"\"shouldConnect\"\")\",\"resources\":{\"condition\":{\"equals\":{\"toLower\":{\"parameters\"\"type\"\")\",\"properties\":{\"guestConfiguration\":{\"name\":{\"parameters\"\"configurationName\"\",\"version\":\"1.*\",\"configurationParameter\":{\"name\":\"WindowsRemoteConnection\"\",\"host\":{\"parameters\"\"host\"\")\",\"port\":{\"parameters\"\"port\"\")\",\"shouldConnect\":{\"parameters\"\"shouldConnect\"\")\",\"resources\":{\"condition\":{\"equals\":{\"toLower\":{\"parameters\"\"type\"\")\",\"properties\":{\"guestConfiguration\":{\"name\":{\"parameters\"\"configurationName\"\",\"version\":\"1.*\",\"configurationParameter\":{\"name\":\"WindowsRemoteConnection\"\",\"host\":{\"parameters\"\"host\"\")\",\"port\":{\"parameters\"\"port\"\")\",\"shouldConnect\":{\"parameters\"\"shouldConnect\"\")\",\"resources\":{\"condition\":{\"equals\":{\"toLower\":{\"parameters\"\"type\"\")\",\"properties\":{\"guestConfiguration\":{\"name\":{\"parameters\"\"configurationName\"\",\"version\":\"1.*\",\"configurationParameter\":{\"name\":\"WindowsRemoteConnection\"\",\"host\":{\"parameters\"\"host\"\")\",\"port\":{\"parameters\"\"port\"\")\",\"shouldConnect\":{\"parameters\"\"shouldConnect\"\")\",\"resources\":{\"condition\":{\"equals\":{\"toLower\":{\"parameters\"\"type\"\")\",\"properties\":{\"guest[..."
Show audit results from Windows VMs configurations in “Security Options - Network Security”. This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: “Security Options - Network Security”. For more information on Guest Configuration policies, please visit https://aka.ms/gepol.

Audit Log Analytics agent deployment in virtual machine scale sets - VM Image (OS) unlisted. Reports virtual machine scale sets as non-compliant if the VM Image (OS) is not in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated.

List of VM images that have supported Windows OS to add to scope.
List of VM images that have supported Linux OS to add to scope:

```
"subscriptions/<subscriptionId>/resourceGroups/YourResourceGroup/providers/Microsoft.Compute/images/ContosoStdImage","defaultValue":[]},
"policyRule":
{"if":
{"allOf":
["field":
"Microsoft.Compute/imageId","in":
["parameters(listOfImageIdToInclude_windows)"]},
{"anyOf":
["field":
"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"],
["field":
"Microsoft.Compute/imageOffer","equals":"WindowsServer"],
["field":
"Microsoft.Compute/imageSKU","in":
{"field":
"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"],
["field":
"Microsoft.Compute/imageOffer","equals":"WindowsServerSemiAnnual"],
["field":
"Microsoft.Compute/imageSKU","in":
["Datacenter-Core-1709-smalldisk","Datacenter-Core-1709-with-Containers-smalldisk"],
["field":
"Microsoft.Compute/imagePublisher","equals":
"MicrosoftWindowsServerHPCPack"],
["field":
"Microsoft.Compute/imageOffer","equals":"WindowsServerHPCPack"],
["allOf":
["field":
"Microsoft.Compute/imageId","in":
["parameters(listOfImageIdToInclude_windows)"]},
{"anyOf":
["field":
"Microsoft.Compute/imagePublisher","equals":"MicrosoftSQLServer"],
["anyOf":
["field":
"Microsoft.Compute/imageOffer","like":
"*WS2016*"]},
["field":
"Microsoft.Compute/imageOffer","like":
"*WS2016-BYOL"]},
["field":
"Microsoft.Compute/imageOffer","like":
"*WS2012R2-"
],
["field":
"Microsoft.Compute/imageOffer","like":
"*WS2012R2-BYOL"]]}},
["allOf":
["field":
"Microsoft.Compute/imagePublisher","equals":"MicrosoftRServer"],
["field":
"Microsoft.Compute/imageOffer","equals":
"MLServer-WS2016"],
["allOf":
["field":
"Microsoft.Compute/imagePublisher","equals":
"MicrosoftVisualStudio"],
["field":
"Microsoft.Compute/imageOffer","in":
["VisualStudio","Windows"]},
["allOf":
["field":
"Microsoft.Compute/imagePublisher","equals":
"MicrosoftDynamicsAX"],
["field":
"Microsoft.Compute/imageOffer","equals":
"Dynamics"],
["field":
"Microsoft.Compute/imageSKU","equals":
"Pre-Req-A7-Onebox-U8"}],
["allOf":
["field":
"Microsoft.Compute/imagePublisher","equals":
"microads"],
["field":
"Microsoft.Compute/imageOffer","equals":
"windows-data-science-vm"}],
["allOf":
["field":
"Microsoft.Compute/imagePublisher","equals":
"MicrosoftWindowsDesktop"],
["field":
"Microsoft.Compute/imageOffer","equals":
"Windows-10"}],
["allOf":
["field":
"Microsoft.Compute/imagePublisher","equals":
"RedHat"],
["field":
"Microsoft.Compute/imageOffer","in":
["RHEL","RHEL-SAP-HANA"}],
["anyOf":
["field":
"Microsoft.Compute/imageSKU","like":
"6.*"],
["field":
"Microsoft.Compute/imageSKU","like":
"7.*"]}],
["allOf":
["field":
"Microsoft.Compute/imagePublisher","equals":
"SUSE"],
["field":
"Microsoft.Compute/imageOffer","in":
["SLES","SLES-HPC","SLES-HPC-Priority","SLES-SAP","SLES-SAP-BYOS","SLES-Priority","SLES-BYOS","SLES-SAPCAL","SLES-Standard"],
["anyOf":
["field":
"Microsoft.Compute/imageSKU","like":
"12*"]],
["allOf":
["field":
"Microsoft.Compute/imagePublisher","equals":
"Canonical"],
["field":
"Microsoft.Compute/imageOffer","equals":
"UbuntuServer"],
["anyOf":
["field":
"Microsoft.Compute/imageSKU","like":
"14.04*"],
["field":
"Microsoft.Compute/imageSKU","like":
"16.04*"],
["field":
"Microsoft.Compute/imageSKU","like":
"18.04*"]],
["allOf":
["field":
"Microsoft.Compute/imagePublisher","equals":
"Oracle"],
["field":
"Microsoft.Compute/imageOffer","equals":
"Oracle-Linux"],
["anyOf":
["field":
"Microsoft.Compute/imageSKU","like":
"6.*"],
["field":
"Microsoft.Compute/imageSKU","like":
"7.*"]]],
["allOf":
["field":
"Microsoft.Compute/imagePublisher","equals":
"OpenLogic"],
["field":
"Microsoft.
Open Source Used In SDWan

Managed Control 1671 - Flaw Remediation

Managed Control 1067 - Wireless Access

Managed Control 1483 - Water Damage Protection

External accounts with write permissions should be removed from your subscription.
Managed Control 1362 - Incident Handling,

policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1362"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":"audit"}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/5d169442-d6ef-439b-8dca-46c2e3248214","type":"Microsoft.Authorization/policyDefinitions","name":"5d169442-d6ef-439b-8dca-46c2e3248214"},{"properties":{"displayName":"Microsoft Managed Control 1014 - Account Management | Removal Of Temporary / Emergency Accounts","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1014"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":"audit"}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/5dee936c-8037-4df1-ab35-66357333da48c","type":"Microsoft.Authorization/policyDefinitions","name":"5dee936c-8037-4df1-ab35-66357333da48c"},{"properties":{"displayName":"Microsoft Managed Control 1665 - Process Isolation","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1665"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":"audit"}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/5df3a55c-8456-44d4-941e-175f79332512","type":"Microsoft.Authorization/policyDefinitions","name":"5df3a55c-8456-44d4-941e-175f79332512"},{"properties":{"displayName":"Microsoft Managed Control 1251 - Contingency Plan | Coordinate With Related Plans","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Contingency Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1251"},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]}},"then":{"effect":"audit"}},{"id":"/providers/Microsoft.Authorization/policyDefinitions/5e2b3730-8c14-4081-8893-178000"}}
Audit Web Applications that are not using latest supported .NET Framework, "mode": "All", "description": "Use the latest supported .NET Framework version for the latest security classes.

Using older classes and types can make your application vulnerable.

- **Audit Web Applications that are not using latest supported .NET Framework**
  - **DisplayName**: [Deprecated]: Audit Web Applications that are not using latest supported .NET Framework
  - **PolicyType**: BuiltIn
  - **Mode**: All
  - **Description**: Use the latest supported .NET Framework version for the latest security classes. Using older classes and types can make your application vulnerable.
  - **Metadata**: version: "1.0.0-deprecated",
  - **Category**: Security
  - **Parameters**: 
    - **Effect**: "AuditIfNotExists"
    - **Description**: Enable or disable the execution of the policy.
    - **AllowedValues**: ["AuditIfNotExists", "Disabled"]

- **Policy Rule**
  - **If**: 
    - **Allof**: 
      - **Field**: type
        - **Equals**: "microsoft.Web/sites"
      - **Anyof**: 
        - **Field**: kind
          - **Equals**: "app"
        - **Field**: kind
          - **Equals**: "WebApp"
        - **Field**: kind
          - **Equals**: "app,linux"
        - **Field**: kind
          - **Equals**: "app,linux,container"
  - **Then**: 
    - **Effect**: ["parameters(''effect'')"]
    - **Details**: 
      - **Type**: Microsoft.Security/complianceResults
      - **Name**: UseLatestDotNet
      - **ExistenceCondition**: 
        - **Field**: Microsoft.Security/complianceResults/resourceStatus
        - **In**: ["OffByPolicy", "Healthy"]

- **Other Policy Definitions**
  - "5e3315e0-a414-4efb-a4d2-c7bd2b0443d2
  - "5e3315e0-a414-4efb-a4d2-c7bd2b0443d2

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol/
Managed Control 1116 - Audit Review, Analysis, And Reporting

```
policyType: "Static",
mode: "Indexed",
description: "Microsoft implements this Audit and Accountability control",
```

Managed Control 1208 - Configuration Settings

```
policyType: "Static",
mode: "Indexed",
description: "Allows resource creation only in India data centers",
```

Log Analytics agent for Linux virtual machine scale sets

```
policyType: "BuiltIn",
mode: "Indexed",
description: "Deploy Log Analytics agent for Linux virtual machine scale sets if the VM Image (OS) is in the list defined and the agent is not installed. Note: if your scale set upgradePolicy is set to Manual, you need to apply the extension to the all VMs in the set by calling upgrade on them. In CLI this would be az vmss update-"
```

Log Analytics workspace, description: "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID.
```

List of VM images that have supported Linux OS to add to scope, description: "Example value:"
Managed Control 1576 - Acquisition Process | Design / Implementation Information
For Security Controls,"policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1576"},"policyRule":{"if":{"allOf":[]},"then":{"effect":[]},"details":null},"id":"/providers/Microsoft.Authorization/policyDefinitions/5f18c885-ad3-48c5-80b1-8f9216019c18","type":"Microsoft.Authorization/policyDefinitions","name":"5f18c885-ad3-48c5-80b1-8f9216019c18"},"properties":{"displayName":"External accounts with read permissions should be removed from your subscription","policyType":"BuiltIn","mode":"All","description":"External accounts with read privileges should be removed from your subscription in order to prevent unmonitored access.","metadata":{"version":"1.0.0","category":"Security Center"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":null,"defaultValue":"AuditIfNotExists"},"policyRule":{"if":null,"then":null,"details":null},"id":"/providers/Microsoft.Authorization/policyDefinitions/5f76cf89-fbf2-47fd-a3f4-b891fa780b60","type":"Microsoft.Authorization/policyDefinitions","name":"5f76cf89-fbf2-47fd-a3f4-b891fa780b60"},"properties":{"displayName":"Audit prerequisites to enable Guest Configuration policies on Windows VMs.","policyType":"BuiltIn","mode":"Indexed","description":"This definition allows Azure Policy to audit the Azure Policy for Windows extension on Windows VMs. The extension is a prerequisite for Guest Configuration policies.

For more information on Guest Configuration policies, visit https://aka.ms/gcpol","metadata":{"version":"1.0.0","category":"Guest Configuration"},"parameters":{"effect":{"type":null,"metadata":null,"allowedValues":null,"defaultValue":null},"policyRule":null,"id":"/providers/Microsoft.Authorization/policyDefinitions/5f76cf89-fbf2-47fd-a3f4-b891fa780b60","type":"Microsoft.Authorization/policyDefinitions","name":"5f76cf89-fbf2-47fd-a3f4-b891fa780b60"},"properties":{"displayName":"Audit prerequisites to enable Guest Configuration policies on Windows VMs.","policyType":"BuiltIn","mode":"Indexed","description":"This definition allows Azure Policy to audit the Azure Policy for Windows extension on Windows VMs. The extension is a prerequisite for Guest Configuration policies.

For more information on Guest Configuration policies, visit https://aka.ms/gcpol","metadata":{"version":"1.0.0","category":"Guest Configuration"},"parameters":{"effect":{"type":null,"metadata":null,"allowedValues":null,"defaultValue":null},"policyRule":null,"id":"/providers/Microsoft.Authorization/policyDefinitions/5f76cf89-fbf2-47fd-a3f4-b891fa780b60","type":"Microsoft.Authorization/policyDefinitions","name":"5f76cf89-fbf2-47fd-a3f4-b891fa780b60"},"properties":{"displayName":"Audit prerequisites to enable Guest Configuration policies on Windows VMs.","policyType":null,"mode":null,"description":null,"metadata":null,"parameters":null,"policyRule":null,"id":null,"type":null,"name":null,"properties":null}}
services"}, {"field": "Microsoft.Compute/imageOffer", "like": "ad*"}], {"allOf": [{"anyOf": [{"field": "Microsoft.Compute/imageSKU", "exists": true}, {"field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType", "like": "Windows*"}, {"anyOf": [{"field": "Microsoft.Compute/imageOffer", "notLike": "2008*"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "SQL2008*"}]}, {"then": {"effect": "parameters(effect)", "details": {"type": "Microsoft.Compute/virtualMachines/extensions", "name": "AzurePolicyforWindows", "existenceCondition": {"allOf": [{"field": "Microsoft.Compute/virtualMachines/extensions/publisher", "equals": "Microsoft.GuestConfiguration"}, {"field": "Microsoft.Compute/virtualMachines/extensions/type", "equals": "ConfigurationforWindows"}]}}}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/5fc23db3-dd4d-4c56-bcc7-43626243e601", "type": "Microsoft.Authorization/policyDefinitions", "name": "5fc23db3-dd4d-4c56-bcc7-43626243e601"}, {"properties": {"displayName": "Add or replace a tag on resources", "policyType": "BuiltIn", "mode": "Indexed", "description": "Adds or replaces the specified tag and value when any resource is created or updated. Existing resources can be remediated by triggering a remediation task. Does not modify tags on resource groups.", "metadata": {"version": "1.0.0", "category": "Tags"}, "parameters": {"tagName": {"type": "String", "metadata": {"displayName": "Tag Name", "description": "Name of the tag, such as "environment""}}, "tagValue": {"type": "String", "metadata": {"displayName": "Tag Value", "description": "Value of the tag, such as "production""}}, "policyRule": {"if": {"field": [concat('tags[', parameters('tagName'), ']')], "notEquals": [parameters('tagValue')], "then": {"effect": "modify", "details": {"roleDefinitionIds": ['/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c'], "operations": [{"operation": "addOrReplace", "field": [concat('tags[', parameters('tagName'), ']', [parameters('tagValue')])]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/5fd78d9-436d-4b41-a421-5baa819e3008", "type": "Microsoft.Authorization/policyDefinitions", "name": "5fd78d9-436d-4b41-a421-5baa819e3008", "properties": {"displayName": "Microsoft Managed Control 1663 - Protection Of Information At Rest", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": '/providers/Microsoft.PolicyInsights/policyMetadata/ACF1663'}, "policyRule": {"if": {"field": [concat('tags[', parameters('tagName'), ']', [parameters('tagValue')])], "not": true}}, "then": {"effect": "audit", "details": {"roleDefinitionIds": ['/providers/microsoft.authorization/roleDefinitions/b3f9924a-b9c7-449f-a49a-693849c7530e'], "operations": [{"operation": "addOrReplace", "field": [concat('tags[', parameters('tagName'), ']', [parameters('tagValue')])]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/60171210-6dde-40af-a144-bf2670518bfa", "type": "Microsoft.Authorization/policyDefinitions", "name": "60171210-6dde-40af-a144-bf2670518bfa", "properties": {"displayName": “[Preview]: Show audit results from Windows VMs configurations in "System Audit Policies - Object Access"", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Object Access". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.0.0-preview", "category": "Guest Configuration", "preview": true}, "policyRule": {"if": {"anyOf": [{"field": [concat('tags[', parameters('tagName'), ']', [parameters('tagValue')])], "not": true}], "then": {"audit": {"details": {"roleDefinitionIds": ['/providers/microsoft.authorization/roleDefinitions/b3f9924a-b9c7-449f-a49a-693849c7530e'], "operations": [{"operation": "addOrReplace", "field": [concat('tags[', parameters('tagName'), ']', [parameters('tagValue')])]}], "id": "/providers/Microsoft.Authorization/policyDefinitions/60171210-6dde-40af-a144-bf2670518bfa", "type": "Microsoft.Authorization/policyDefinitions", "name": "60171210-6dde-40af-a144-bf2670518bfa", "properties": {"displayName": "Microsoft Open Source Used In SDWan 20.6.1 17805"}}}},
Advanced Data Security on SQL servers

This policy enables Advanced Data Security on SQL Servers. This includes turning on Threat Detection and Vulnerability Assessment. It will automatically create a storage account in the same region and resource group as the SQL server to store scan results, with a "sqlva" prefix.
Configure time zone on Windows machines.

This policy creates a Guest Configuration assignment to set specified time zone on Windows virtual machines.

### Parameters

- **TimeZone**: String
  - **allowedValues**: UTC-12:00, UTC-11:00, UTC-10:00, UTC-09:30, UTC-09:00, UTC-08:00, UTC-07:00, UTC-06:00, UTC-05:00, UTC-04:00, UTC-03:30, UTC-03:00, UTC-02:00, UTC-01:00, UTC-00:00, UTC+00:00, UTC+01:00, UTC+02:00, UTC+03:00, UTC+04:00, UTC+05:00, UTC+06:00, UTC+07:00, UTC+08:00, UTC+09:00, UTC+10:00, UTC+11:00, UTC+12:00

### Supported Time Zones

- (UTC-12:00) International Date Line West
- (UTC-11:00) Coordinated Universal Time-11
- (UTC-10:00) Aleutian Islands
- (UTC-10:00) Hawaiian Islands
- (UTC-09:30) Marquesas Islands
- (UTC-09:00) Alaska
- (UTC-09:00) Coordinated Universal Time-09
- (UTC-08:00) Baja California
- (UTC-08:00) Coordinated Universal Time-08
- (UTC-07:00) Arizona
- (UTC-06:00) Chihuahua
- (UTC-05:00) Central America
- (UTC-05:00) Eastern Time (US & Canada)
- (UTC-05:00) Guadalajara, Mexico City
- (UTC-05:00) Monterrey
- (UTC-05:00) Saskatchewan
- (UTC-05:00) Bogota, Lima, Quito, Rio Branco
- (UTC-04:00) Chetumal
- (UTC-04:00) Eastern Time (US & Canada)
- (UTC-04:00) Haiti
- (UTC-04:00) Havana
- (UTC-04:00) Indiana (East)
- (UTC-04:00) Turks and Caicos
- (UTC-04:00) Asuncion
- (UTC-04:00) Atlantic Time (Canada)
- (UTC-04:00) Caracas
- (UTC-04:00) Cuiaba
- (UTC-04:00) Georgetown, La Paz, Manaus, San Juan
- (UTC-04:00) Santiago
- (UTC-03:30) Newfoundland
- (UTC-03:00) Araguaina
- (UTC-03:00) Brasilia
- (UTC-03:00) Cayenne, Fortaleza
- (UTC-03:00) City of Buenos Aires
- (UTC-03:00) Greenland
- (UTC-03:00) Montevideo
- (UTC-03:00) Punta Arenas
- (UTC-03:00) Saint Pierre and Miquelon
- (UTC-03:00) Salvador
- (UTC-02:00) Coordinated Universal Time-02
- (UTC-02:00) Mid-Atlantic - Old
- (UTC-01:00) Cabo Verde
- (UTC-01:00) Coordinated Universal Time
- (UTC+00:00) Dublin, Edinburgh, Lisbon, London
- (UTC+00:00) Monrovia, Reykjavik
- (UTC+00:00) Sao Tome
- (UTC+01:00) Casablanca
- (UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
- (UTC+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
- (UTC+01:00) Brussels, Copenhagen, Madrid, Paris
- (UTC+01:00) Sarajevo, Skopje, Warsaw, Zagreb
- (UTC+01:00) West Central Africa
- (UTC+02:00) Amman
- (UTC+02:00) Athens, Bucharest
- (UTC+02:00) Beirut
- (UTC+02:00) Cairo
- (UTC+02:00) Chisinau
- (UTC+02:00) Damascus
- (UTC+02:00) Gaza, Hebron
- (UTC+02:00) Harare, Pretoria
- (UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius
- (UTC+02:00) Jerusalem
- (UTC+02:00) Kaliningrad
- (UTC+02:00) Khartoum
- (UTC+02:00) Tripoli
- (UTC+02:00) Windhoek
- (UTC+03:00) Baghdad
- (UTC+03:00) Istanbul
- (UTC+03:00) Kuwait, Riyadh
- (UTC+03:00) Minsk
- (UTC+03:00) Moscow
St. Petersburg","(UTC+03:00) Nairobi","(UTC+03:30) Tehran","(UTC+04:00) Abu Dhabi, Muscat","(UTC+04:00) Astrakhan, Ulyanovsk","(UTC+04:00) Baku","(UTC+04:00) Izhevsk, Samara","(UTC+04:00) Port Louis","(UTC+04:00) Saratov","(UTC+04:00) Tbilisi","(UTC+04:00) Volgograd","(UTC+04:00) Yerevan","(UTC+04:30) Kabul","(UTC+05:00) Ashgabat, Tashkent","(UTC+05:00) Ekaterinburg","(UTC+05:00) Islamabad, Karachi","(UTC+05:00) Qyzylorda","(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi","(UTC+05:30) Sri Jayawardenepura","(UTC+05:45) Kathmandu","(UTC+06:00) Astana","(UTC+06:00) Dhaka","(UTC+06:00) Omsk","(UTC+06:30) Yangon (Rangoon)","(UTC+07:00) Bangkok, Hanoi, Jakarta","(UTC+07:00) Barnaul, Gorno-Altaysk","(UTC+07:00) Hovd","(UTC+07:00) Krasnoyarsk","(UTC+07:00) Tomsk","(UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi","(UTC+08:00) Irkutsk","(UTC+08:00) Kuala Lumpur, Singapore","(UTC+08:00) Perth","(UTC+08:00) Taipei","(UTC+08:00) Ulambaatar","(UTC+08:45) Eucla","(UTC+09:00) Chita","(UTC+09:00) Osaka, Sapporo, Tokyo","(UTC+09:00) Pyongyang","(UTC+09:00) Seoul","(UTC+09:30) Yakutsk","(UTC+09:30) Adelaide","(UTC+09:30) Darwin","(UTC+10:00) Brisbane","(UTC+10:00) Canberra, Melbourne, Sydney","(UTC+10:00) Guam, Port Moresby","(UTC+10:00) Hobart","(UTC+10:00) Vladivostok","(UTC+10:30) Lord Howe Island","(UTC+11:00) Bougainville Island","(UTC+11:00) Chukotka","(UTC+11:00) Magadan","(UTC+11:00) Norfolk Island","(UTC+11:00) Sakhalin","(UTC+11:00) Solomon Is., New Caledonia","(UTC+12:00) Anadyr, Petropavlovsk-Kamchatsky","(UTC+12:00) Auckland, Wellington","(UTC+12:00) Coordinated Universal Time+12","(UTC+12:00) Fiji","(UTC+12:00) Petropavlovsk-Kamchatsky - Old","(UTC+12:45) Chatham Islands","(UTC+13:00) Coordinated Universal Time+13","(UTC+13:00) Nuku'alofa","(UTC+13:00) Samoa","(UTC+14:00) Kiritimati Island]})","policyRule":{"if":{"anyOf":[{"allOf":[{"field"="type"},"equals"="Microsoft.Compute/virtualMachines"]}],"anyOf":[{"field"="Microsoft.Compute/imagePublisher"},"in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]},"allOf":[{"field"="Microsoft.Compute/imagePublisher"},"equals"="MicrosoftWindowsServer"],{"field"="Microsoft.Compute/imageSKU"},"notLike"="2008*"}],"allOf":[{"field"="Microsoft.Compute/imagePublisher"},"equals"="MicrosoftSQLServer"],"field"="Microsoft.Compute/imageOffer"},"notLike"="SQL2008*"}],"allOf":[{"field"="Microsoft.Compute/imagePublisher"},"equals"="microsoft-dsvm"],{"field"="Microsoft.Compute/imageOffer"},"equals"="dsvm-windows"],"allOf":[{"field"="Microsoft.Compute/imagePublisher"},"equals"="microsoft-ads"],"field"="Microsoft.Compute/imageOffer"},"in":["standard-data-science-vm","windows-data-science-vm"]}],"allOf":[{"field"="Microsoft.Compute/imagePublisher"},"equals"="batch"],"field"="Microsoft.Compute/imageOffer"},"equals"="rendering-windows2016"],"allOf":[{"field"="Microsoft.Compute/imagePublisher"},"equals"="center-for-internet-security"],"field"="Microsoft.Compute/imageOffer"},"like"="cis-windows-server-201*"}],"allOf":[{"field"="Microsoft.Compute/imagePublisher"},"equals"="pivotal"],"field"="Microsoft.Compute/imageOffer"},"like"="bosh-windows-server*"}],"allOf":[{"field"="Microsoft.Compute/imagePublisher"},"equals"="cloud-infrastructure-services"],"field"="Microsoft.Compute/imageOffer"},"like"="ad*"}],"allOf":[{"anyOf":[{"field"="Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration"},"exists"="true"],"field"="Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType"},"like"="Windows*"}],"anyOf":[{"field"="Microsoft.Compute/imageSKU"},"exists"="false"],"allOf":[{"field"="Microsoft.Compute/imageSKU"},"notLike"="2008*"],"field"="Microsoft.Compute/imageOffer"},"notLike"="SQL2008*"]],"allOf":[{"field"="type"},"equals"="Microsoft.HybridCompute/machines"],"field"="Microsoft.HybridCompute/imageOffer"},"like"="windows*"}],"then"="deployIfNotExists","details"="["roleDefinitionIds"="/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],"type"="Microsoft.GuestConfiguration/guestConfigurationAssignments","name"="SetWindowsTimeZone","existenceCondition"="allOf":[{"field"="Microsoft.GuestConfiguration/guestConfigurationAssignments/par
Fabric clusters should have the ClusterProtectionLevel property set to EncryptAndSign. Policy type: "BuiltIn", "mode": "Indexed", "description": "Service Fabric provides three levels of protection (None, Sign and EncryptAndSign) for node-to-node communication using a primary cluster certificate. Set the protection level to ensure that all node-to-node messages are encrypted and digitally signed," "metadata": {"version": "1.1.0", "category": "Service Fabric"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match"}, "allowedValues": [{"Audit", "Deny", "Disabled"}, {"defaultValue": "Audit"}], "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.ServiceFabric/clusters"}, {"anyOf": [{"field": "Microsoft.ServiceFabric/clusters/fabricSettings[*].name", "notEquals": "Security"}, {"field": "Microsoft.ServiceFabric/clusters/fabricSettings[*].parameters[*].name", "notEquals": "ClusterProtectionLevel"}]}], "field": "Microsoft.ServiceFabric/clusters/fabricSettings[*].parameters[*].value", "notEquals": ["EncryptAndSign"]}, {"then": {"effect": ["parameters("effect")"]}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/617c02be-7f02-4efd-8836-3180d47b6c68", "type": "Microsoft.Authorization/policyDefinitions", "name": "617c02be-7f02-4efd-8836-3180d47b6c68"}, {"properties": {"displayName": "Microsoft Managed Control 1110 - Audit Storage Capacity", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1110"}, "policyRule": ..."}
Managed Control 1415 - Nonlocal Maintenance

Microsoft implements this Maintenance control, "Static", "mode": "Indexed", "description": "Regulatory Compliance"

Microsoft implements this Security Assessment and Authorization control, "Static", "mode": "Indexed", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - System objects". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"
Deploy prerequisites to audit Windows VMs configurations in "Security Options - Devices" policy. This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Devices". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Microsoft implemenst this Media Protection control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1441" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] } ] } , "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/6519df73-e8a2-4ff3-a935-9a9497152ad7" } ]

Managed Control 1558 - Vulnerability Scanning | Correlate Scanning

implements this Risk Assessment control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1558" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] } ] } , "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/65592b16-4367-42c5-a26e-d371be450e17" } ]

[Deprecated]: Audit missing blob encryption for storage accounts, "policyType": "BuiltIn", "mode": "All", "description": "This policy is no longer necessary because storage blob encryption is enabled by default and cannot be turned off.", "metadata": {"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true }, "parameters": [ { "effect": "[parameters(''effect'')]", "description": "Enable or disable the execution of the policy", "allowedValues": [ { "Audit", "Disabled" } ], "defaultValue": "Audit" } ], "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "Microsoft.Storage/storageAccounts" } ] } , "then": { "effect": [ parameters(''effect'' ) ] } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/655cb504-bcee-4362-bd4c-402e6a38759" } ]

Managed Control 1261 - Contingency Plan Testing

implements this Contingency Planning control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1261" }, "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "Microsoft.Storage/storageAccounts" } ] } , "then": { "effect": [ parameters(''effect'' ) ] } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/65aceeb5-a59c-4cb1-8d82-9c474be5d431" } ]

[Deprecated]: Audit IP restrictions configuration for a Function App, "policyType": "BuiltIn", "mode": "All", "description": "IP Restrictions allow you to define a list of IP addresses that are allowed to access your app. Use of IP Restrictions protects a Function app from common attacks.", "metadata": {"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true }, "parameters": [ { "effect": "[parameters(''effect'' )]", "description": "Enable or disable the execution of the policy", "allowedValues": [ { "Audit", "Disabled" } ] }, "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "Microsoft.Azure.Functions.FunctionApp" } ] } , "then": { "effect": [ parameters(''effect'' ) ] } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/65aceeb5-a59c-4cb1-8d82-9c474be5d431" } ]
Managed Control 1444 - Media Use | Prohibit Use Without Owner

"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Media Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1444"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/666143df-f5e0-45bd-b554-135f093e44e","type":"Microsoft.Authorization/policyDefinitions","name":"666143df-f5e0-45bd-b554-135f093e44e"},{"properties":{"displayName":"Microsoft Managed Control 1319 - Authenticator Management","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control"},"metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1319"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/66f7ae57-5560-4fc5-85c9-659f2047a42","type":"Microsoft.Authorization/policyDefinitions","name":"66f7ae57-5560-4fc5-85c9-659f2047a42"},{"properties":{"displayName":"Microsoft Managed Control 1628 - Boundary Protection | External Telecommunications Services","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control"},"metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1628"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/67de62b4-a737-4781-8861-3bad3c35069","type":"Microsoft.Authorization/policyDefinitions","name":"67de62b4-a737-4781-8861-3bad3c35069"},{"properties":{"displayName":"Microsoft Managed Control 1377 - Incident Response Assistance | Coordination With External Providers","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control"},"metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1377"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/68434bd1-e14b-4031-9edba4df5f84a67","type":"Microsoft.Authorization/policyDefinitions","name":"68434bd1-e14b-4031-9edba4df5f84a67"},{"properties":{"displayName":"[Preview]: Deploy prerequisites to audit Windows VMs on which the Log Analytics agent

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This policy creates a Guest Configuration assignment to audit Windows virtual machines on which the Log Analytics agent is not connected to the specified workspaces. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

"/Microsoft.GuestConfiguration",
parameters("configurationName")],"location":[parameters("location")],"properties":{
"guestConfiguration":{
"name":parameters("configurationName")],"version":"1.*",configurationParameter:[
"name":"[LogAnalyticsAgentLogAnalyticsAgent1;WorkspaceId","value":parameters("WorkspaceId")]]},
"condition":equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines")],"apiVersion":"2018-11-20","type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments","name":concat(parameters("vmName"),
"Microsoft.GuestConfiguration",
parameters("configurationName")],"location":[parameters("location")],"properties":{
"guestConfiguration":{
"name":parameters("configurationName")],"version":"1.*",configurationParameter:[
"name":"[LogAnalyticsAgentLogAnalyticsAgent1;WorkspaceId","value":parameters("WorkspaceId")]]},
"condition":equals(toLower(parameters("type")),
"type":"SystemAssigned"},name:[parameters("vmName")],"location":[parameters("location")],
"condition":equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines")],"apiVersion":"2015-05-01-preview","name":concat(parameters("vmName"),
"/AzurePolicyforWindows"]],"type":"Microsoft.Compute/virtualMachines/extensions","location":[parameters("location")],
"properties":{
"publisher":"Microsoft.GuestConfiguration","type":"ConfigurationforWindows","typeHandleVersion":"1.1","autoUpgradeMinorVersion":true,"settings":[],"protectedSettings":[]},
"dependsOn":[
concat("Microsoft.Compute/virtualMachines",parameters("vmName")],
/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments[parameters("configurationName")]]],
"id":/providers/Microsoft.Authorization/policyDefinitions/68511db2-bd02-41c4-ae6b-1900a012968a,"type":"Microsoft.Authorization/policyDefinitions","name":68511db2-bd02-41c4-ae6b-1900a012968a],
"properties":{
"displayName":"Microsoft
Managed Control 1597 - Developer Configuration
Management","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{
"version":1.0.0","category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1597","policyRule":{
"if":{
"allOf": [{
"field":"type",
"in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],
"value":false,"equals":true}]
},
"then":{
"effect":audit"}}},
"properties":{
"displayName":"Microsoft
Managed Control 1588 - External Information System Services","policyType":"Static","mode":Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{
"version":1.0.0","category":"Regulatory Compliance","additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1588","policyRule":{
"if":{
"allOf": [{
"field":"type",
"in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"],
"value":false,"equals":true}]
},
"then":{
"effect":audit"}}},
"id":/providers/Microsoft.Authorization/policyDefinitions/68ebae26-e0e0-4ecb-8379-aabf63b51e9,"type":"Microsoft.Authorization/policyDefinitions","name":68ebae26-e0e0-4ecb-8379-aabf63b51e9],
"properties":{
"displayName":"Microsoft
Managed Control 1070 - Wireless Access | Disable Wireless Networking","policyType":"Static","mode":Indexed","description":"Microsoft
implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1070"},"policyRule ":{"if":[{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]},"then":[{"effect":"audit"}]},"id"="/providers/Microsoft.Authorization/policyDefinitions/68f837d0-8942-4b1e-9b31-be78b247bda8","type"="Microsoft.Authorization/policyDefinitions"},"name"="68f837d0-8942-4b1e-9b31-be78b247bda8"},"properties":{"displayName":"Microsoft Managed Control 1727 - Memory Protection","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1727"},"policyRule ":{"if":[{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]},"then":[{"effect":"audit"}]},"id"="/providers/Microsoft.Authorization/policyDefinitions/697175a7-9715-4e89-b98b-c6f605888fa3","type"="Microsoft.Authorization/policyDefinitions"},"name"="697175a7-9715-4e89-b98b-c6f605888fa3"},"properties":{"displayName":"Microsoft Managed Control 1652 - Mobile Code","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1652"},"policyRule ":{"if":[{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},{"value":false,"equals":true}]},"then":[{"effect":"audit"}]},"id"="/providers/Microsoft.Authorization/policyDefinitions/6998e84a-2d29-4e10-8962-76754d4f772d","type"="Microsoft.Authorization/policyDefinitions"},"name"="6998e84a-2d29-4e10-8962-76754d4f772d"},"properties":{"displayName":"[Preview]: Deploy Log Analytics agent to Windows Azure Arc machines","policyType":"BuiltIn","mode":"Indexed","description":"This policy deploys the Log Analytics agent to Windows Azure Arc machines if the agent isn't installed.","metadata":{"version":"1.0.1- preview"},"category":"Monitoring","preview":true,"parameters":{"logAnalytics":{"type":String","metadata":{"displayName":"[Preview]: Log Analytics workspace","description":"Specify the Log Analytics workspace the agent should be connected to. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID."},"strongType":omsWorkspace","assignPermissions":true}],"policyRule":{"if":[{"allOf":[{"field":type,equals":Microsoft.HybridCompute/machines"},{"field":"Microsoft.HybridCompute/imageOffer","like":windows*}],"then":[{"effect":"deployIfNotExists","details":\"Microsoft.HybridCompute/machines/extensions","roleDefinitionIds":\"/providers/Microsoft.Authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3-d43ce8d16293\",\"existenceCondition":\"allOf\":\"Microsoft.HybridCompute/machines/extensions/type",\"equals":\"MicrosoftMonitoringAgent\",\"field":\"Microsoft.HybridCompute/machines/extensions/publisher","equals":\"Microsoft.EnterpriseCloud.Monitoring\",\"field":\"Microsoft.HybridCompute/machines/extensions/provisioningState","equals":\"Succeeded\"}],\"deployment":\"properties":\"mode",\"incremental",\"template":\"\"},"parameters":\"vmName","type":string","location":\"resourceGroup","logAnalytics":\"type":string","variables":\"vmExtensionName","MMAExtension","vmExtensionPublisher":Microsoft.EnterpriseCloud.Monitoring,"vmExtensionType":MicrosoftMonitoringAgent"}]}
Deploy prerequisites to audit Windows VMs on which Windows Defender Exploit Guard is not enabled

This policy creates a Guest Configuration assignment to audit Windows virtual machines on which Windows Defender Exploit Guard is not enabled. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

State in which to show VMs on which Windows Defender Exploit Guard is not available

Windows Defender Exploit Guard is only available starting with Windows 10/Windows Server with update 1709. Setting this value to "Non-Compliant" will make machines with older versions on which Windows Defender Exploit Guard is not available (such as Windows Server 2012 R2) non-compliant. Setting this value to "Compliant" will make these machines compliant.
Audit IP restrictions configuration for a Web Application, "policyType": "BuiltIn", "mode": "All", "description": "IP Restrictions allow you to define a list of IP addresses that are allowed to access your app. Use of IP Restrictions protects a web application from common attacks."
"parameters": [{"name": "location", "type": "string", "metadata": {"displayName": "Location", "description": "The location of the virtual machine."}}], "dependsOn": ["Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments("{"name": "/subscriptions/70f96f5c-37f7-42f1-897a-8a8d0431059e/locations/{location}/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments(name='AzurePolicyforWindows')"}")"]}}

"id": "/subscriptions/70f96f5c-37f7-42f1-897a-8a8d0431059e/providers/Microsoft.Authorization/policyDefinitions/6a7a2bdf-9be4-4350-9734-49657a70f1d"

"type": "Microsoft.Authorization/policyDefinitions", "name": "6a7a2bdf-9be4-4350-9734-49657a70f1d", "properties": {"displayName": "[Deprecated]: Audit IP restrictions configuration for a Web Application", "policyType": "BuiltIn", "mode": "All", "description": "IP Restrictions allow you to define a list of IP addresses that are allowed to access your app. Use of IP Restrictions protects a web application from common attacks.", "metadata": {"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true}, "parameters": [{"name": "location", "type": "string", "metadata": {"displayName": "[Deprecated]: Location", "description": "The location of the virtual machine."}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"]}, "policyRule": {"if": 

```json
{
```
Managed Control 1211 - Configuration Settings*, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1211", "policyRule": ": 
"if": 
"allOf": 
["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], 
"value": false, 
"equals": true 
"then": 
["effect": 
"audit" 
"
"] 
", 
"id": 
"/providers/Microsoft.Authorization/policyDefinitions/6a8b9dc8-6b00-4701-aa96-bba3277ebf50", 
"type": 
"Microsoft.Authorization/policyDefinitions", 
"name": "6a8b9dc8-6b00-4701-aa96-bba3277ebf50", 
"properties": 
"{displayName": "[Deprecated]
Ensure WEB app is using the latest version of TLS encryption
"policyType": "BuiltIn", "mode": "Indexed", "description": "Please use /providers/Microsoft.Authorization/policyDefinitions/f0e6e85b-9b9f-4a4b-b67b-f730d42f1b0b instead. The TLS (Transport Layer Security) protocol secures transmission of data over the internet using standard encryption technology. Encryption should be set with the latest version of TLS. App service allows TLS 1.2 by default, which is recommended by industry standards such as PCI DSS.", "metadata": 
""version": "1.0.0-deprecated", 
"category": "App Service", 
"deprecated": true, 
"parameters": 
""effect": "[Deprecated]: Effect", "String", "metadata": 
"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy", "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists" 
"policyRule": 
"if": 
"allOf": 
["field": "type", "equals": "Microsoft.Web/sites"], 
"field": "kind", "like": "app*" 
"then": 
["effect": ["parameters("effect")", 
"details": 
"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": 
"field": "Microsoft.Web/sites/config/web.minTlsVersion", "equals": 1.2 
"
"] 
", 
"id": 
"/providers/Microsoft.Authorization/policyDefinitions/6ad61431-88ce-4357-a0e1-6da43f292bd7", 
"type": 
"Microsoft.Authorization/policyDefinitions", 
"name": "6ad61431-88ce-4357-a0e1-6da43f292bd7", 
"properties": 
"{displayName": "Microsoft Managed Control 1653 - Mobile Code", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "category": "Regulatory Compliance", "additionalMetadataId": 
"providers/Microsoft.PolicyInsights/policyMetadata/ACF1653", "policyRule": 
"if": 
"allOf": 
["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], 
"value": false, 
"equals": true 
"then": 
["effect": 
"audit" 
"
"] 
", 
"id": 
"/providers/Microsoft.Authorization/policyDefinitions/6b1c00a7-7fd0-42b0-8c5b-c45f6fa1f71b", 
"type": 
"Microsoft.Authorization/policyDefinitions", 
"name": "6b1c00a7-7fd0-42b0-8c5b-c45f6fa1f71b", 
"properties": 
"{displayName": "Deprecated accounts should be removed from your subscription", "policyType": "BuiltIn", "mode": "All", "description": "Deprecated accounts should be removed from your subscriptions. Deprecated accounts are accounts that have been blocked from signing in.", 
"metadata": 
"version": "1.0.0", 
"category": "Security Center", 
"parameters": 
"effect": "[type": "String", 
"metadata": 
"displayName": "Effect", 
"description": "Enable or disable the execution of the
Open Source Used In SDWan
Managed Control 1031 - Separation Of Duties

Microsoft

implements this Access Control control,

metaData:

"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1031",
"policyRule": 
  
  "if": 
    
    "allOf": [ 
      
      "field": "type",
      "in": "[Microsoft.Resources/subscriptions,Microsoft.Resources/subscriptions/resourceGroups]"
    ],
    
    "value": false,
    "equals": "true"
  
  
  ,
  
  "then": 
    
    "effect": "audit"

"id": "/providers/Microsoft.Authorization/policyDefinitions/6b93a801-fe25-4574-a60d-cb22acffae00",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "6b93a801-fe25-4574-a60d-cb22acffae00",
"properties": 
  
  
  "displayName": "Not allowed resource types",
  
  "policyType": "BuiltIn",
  
  "mode": "All",
  
  "description": "This policy enables you to specify the resource types that your organization cannot deploy.",
  
  "metaData": 
    
    "version": "1.0.0",
    "category": "General",
    "parameters": 
      
      ["listOfResourceTypesNotAllowed", "type: Array"]

Managed Control 1338 - Authenticator Management | Automated Support For Password Strength Determination

Microsoft

implements this Identification and Authentication control,

metaData:

"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1338",
"policyRule": 
  
  "if": 
    
    "allOf": [ 
      
      "field": "type",
      "in": "[Microsoft.Resources/subscriptions,Microsoft.Resources/subscriptions/resourceGroups]"
    ],
    
    "value": false,
    "equals": "true"
  
  
  ,
  
  "then": 
    
    "effect": "audit"

"id": "/providers/Microsoft.Authorization/policyDefinitions/6c112d4e-5bc7-47ae-a041-ea2d9dcd749",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "6c112d4e-5bc7-47ae-a041-ea2d9dcd749",
"properties": 
  
  
  "displayName": "Microsoft Managed Control 1304 - Identification And Authentication control",
  
  "metaData": 
    
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1304",
    "policyRule": 
      
      "if": 
        
        "allOf": [ 
          
          "field": "type",
          "in": "[Microsoft.Resources/subscriptions,Microsoft.Resources/subscriptions/resourceGroups]"
        ],
        
        "value": false,
        "equals": "true"
      
      
      ,
      
      "then": 
        
        "effect": "audit"

"id": "/providers/Microsoft.Authorization/policyDefinitions/6ca71be3-16cb-4d39-8b50-e1ff6e4a4db",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "6ca71be3-16cb-4d39-8b50-e1ff6e4a4db",
"properties": 
  
  
  "displayName": "Microsoft Managed Control 1304 - Identification And Authentication control",
  
  "metaData": 
    
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1304",
    "policyRule": 
      
      "if": 
        
        "allOf": [ 
          
          "field": "type",
          "in": "[Microsoft.Resources/subscriptions,Microsoft.Resources/subscriptions/resourceGroups]"
        ],
        
        "value": false,
        "equals": "true"
      
      
      ,
      
      "then": 
        
        "effect": "audit"

"id": "/providers/Microsoft.Authorization/policyDefinitions/6ca71be3-16cb-4d39-8b50-e1ff6e4a4db"
Managed Control 1437 - Media Transport | Cryptographic Protection

- **policyType**: "Static", **mode**: "Indexed", **description**: "Microsoft implements this Media Protection control", **metadata**: { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1437" }, **policyRule**: { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions" ] } ] }, "then": { "effect": "audit" } }, **id**: "/providers/Microsoft.Authorization/policyDefinitions/6d1eb6ed-bf13-4046-b993-b9e2aef076c".

Managed Control 1171 - Penetration Testing | Independent Penetration Agent

- **policyType**: "Static", **mode**: "Indexed", **description**: "Microsoft implements this Security Assessment and Authorization control", **metadata**: { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1171" }, **policyRule**: { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions" ] } ] }, "then": { "effect": "audit" } }, **id**: "/providers/Microsoft.Authorization/policyDefinitions/6d4820bc-8b61-4982-9501-2123cb776c00".

Function App should only be accessible over HTTPS

- **policyType**: "BuiltIn", **mode**: "Indexed", **description**: "Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks.", **metadata**: { "version": "1.0.0", "category": "App Service" }, **parameters**: { "effect": { "type": "String", "metadata": { "displayName": "Effect", "description": "Enable or disable the execution of the policy" } } }, **policyRule**: { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Web/sites" ] } ] }, "then": { "effect": [ "parameters('effect')" ] } }, **id**: "/providers/Microsoft.Authorization/policyDefinitions/6d555dd1-86f2-4f1c-8ed7-5abae7c6cab", **properties**: { "displayName": "Microsoft" }.

Managed Control 1643 - Cryptographic Key Establishment And Management

- **policyType**: "Static", **mode**: "Indexed", **description**: "Microsoft implements this System and Communications Protection control", **metadata**: { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1643" }, **policyRule**: { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions" ] } ] }, "then": { "effect": "audit" } }, **id**: "/providers/Microsoft.Authorization/policyDefinitions/6d8d492c-dd7a-46f7-a723-fa66a425b87c", **properties**: { "displayName": "Microsoft" }.

Managed Control 1291 - Information System Backup | Testing For Reliability

- **policyType**: "Static", **mode**: "Indexed", **description**: "Microsoft implements this Contingency Planning control", **metadata**: { "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1291" }, **policyRule**: { "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions" ] } ] }, "then": { "effect": "audit" } }, **id**: "/providers/Microsoft.Authorization/policyDefinitions/6d8fd073-9c85-4ee2-a9d0-17826".

Open Source Used In SDWan 20.6.1 17826
Managed Control 1586 - External Information System Services

Microsoft implements this System and Services Acquisition control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1586"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6e3b2fbd-8f37-4766-a64d-3f37703dce51"}, "properties": {"displayName": "Microsoft Managed Control 1586 - External Information System Services"}

Managed Control 1536 - Risk Assessment Policy And Procedures

Microsoft implements this Risk Assessment control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1536"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6e40d9de-2ad4-4cb5-8945-23143326a502"}, "properties": {"displayName": "Microsoft Managed Control 1536 - Risk Assessment Policy And Procedures"}

Managed Control 1530 - Third-Party Personnel Security

Microsoft implements this Personnel Security control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1530"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6e8f9566-29f1-49cd-b61f-f8628a3e993"}, "properties": {"displayName": "Microsoft Managed Control 1530 - Third-Party Personnel Security"}

Managed Control 1460 - Access Control For Output Devices

Microsoft implements this Physical and Environmental Protection control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1460"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6f3ce1bb-4f77-4695-8355-70b08d54f8da"}, "properties": {"displayName": "Microsoft Managed Control 1460 - Access Control For Output Devices"}

Managed Control 1320 - Authenticator Management

Microsoft implements this Identification and Authentication control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1320"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/6f3ce1bb-4f77-4695-8355-70b08d54f8da"}, "properties": {"displayName": "Microsoft Managed Control 1320 - Authenticator Management"}
Allow resource creation only in Japan data centers, "policyType": "BuiltIn", "mode": "Indexed", "description": "Allows resource creation in the following locations only: Japan East, Japan West", "metadata": {"version": "1.0.0-deprecated", "category": "General", "deprecated": true}, "parameters": {}, "policyRule": 

Show audit results from Windows VMs configurations in "Security Options - Microsoft Network Server", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Microsoft Network Server". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"
Deploy prerequisites to audit Windows VMs configurations in "Windows Components".

This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Windows Components". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Send file samples when further analysis is required.
whether and how Windows Defender will submit samples of suspected malware to Microsoft for further analysis when opt-in for MAPS telemetry is set.

**Allow Indexing Of Encrypted Files**

Specifies whether encrypted items are allowed to be indexed.

**Allow Telemetry**

Specifies configuration of the amount of diagnostic and usage data reported to Microsoft. The data is transmitted securely and sensitive data is not sent.

**Allow Unencrypted Traffic**

Specifies whether the Windows Remote Management (WinRM) service sends and receives unencrypted messages over the network.

**Always Install With Elevated Privileges**

Specifies whether Windows Installer should use system permissions when it installs any program on the system.

**Always Prompt For Password Upon Connection**

Specifies whether Terminal Services/Remote Desktop Connection always prompts the client computer for a password upon connection.

**Application Specify The Maximum Log File Size KB**

Specifies the maximum size for the Application event log in kilobytes.

**Automatically Send Memory Dumps For OS Generated Error Reports**

Specifies if memory dumps in support of OS-generated error reports can be sent to Microsoft automatically.

**Configure Default Consent**

Specifies setting of the default consent handling for error reports sent to Microsoft.

**Configure Windows SmartScreen**

Specifies how to manage the behavior of Windows SmartScreen. Windows SmartScreen helps keep PCs safer by warning users before running unrecognized programs downloaded from the Internet. Some information is sent to Microsoft about files and programs run on PCs with this feature enabled.

**Disallow Digest Authentication**

Specifies whether the Windows Remote Management (WinRM) client will not use Digest authentication.

**Disallow WinRM From Storing Run As Credentials**

Specifies whether Windows Remote Management (WinRM) client will not use Run As Credentials.
Disallow WinRM from storing RunAs credentials.\"description\":\"Specifies whether the Windows Remote Management (WinRM) service will not allow RunAs credentials to be stored for any plug-ins.\"},\"defaultValue\":\"1\"},\"DoNotAllowPasswordsToBeSaved\":\{"type\":\"String\",\"metadata\":\{"displayName\":\"[Preview]\:\n\nDo not allow passwords to be saved\",\"description\":\"Specifies whether to prevent Remote Desktop Services - Terminal Services clients from saving passwords on a computer.\"},\"defaultValue\":\"1\"},\"SecuritySpecifyTheMaximumLogFileSizeKB\":\{"type\":\"String\",\"metadata\":\{"displayName\":\"[Preview]\:\nSecurity: Specify the maximum log file size (KB)\",\"description\":\"Specifies the maximum size for the Security event log in kilobytes.\"},\"defaultValue\":\"196608\"},\"SetClientConnectionEncryptionLevel\":\{"type\":\"String\",\"metadata\":\{"displayName\":\"[Preview]\:\nSet client connection encryption level\",\"description\":\"Specifies whether to require the use of a specific encryption level to secure communications between client computers and RD Session Host servers during Remote Desktop Protocol (RDP) connections. This policy only applies when you are using native RDP encryption.\"},\"defaultValue\":\"3\"},\"SetTheDefaultBehaviorForAutoRun\":\{"type\":\"String\",\"metadata\":\{"displayName\":\"[Preview]\:\nSet the default behavior for AutoRun\",\"description\":\"Specifies the default behavior for Autorun commands. Autorun commands are generally stored in autorun.inf files. They often launch the installation program or other routines.\"},\"defaultValue\":\"1\"},\"SetupSpecifyTheMaximumLogFileSizeKB\":\{"type\":\"String\",\"metadata\":\{"displayName\":\"[Preview]\:\nSetup: Specify the maximum log file size (KB)\",\"description\":\"Specifies the maximum size for the Setup event log in kilobytes.\"},\"defaultValue\":\"32768\"},\"SystemSpecifyTheMaximumLogFileSizeKB\":\{"type\":\"String\",\"metadata\":\{"displayName\":\"[Preview]\:\nSystem: Specify the maximum log file size (KB)\",\"description\":\"Specifies the maximum size for the System event log in kilobytes.\"},\"defaultValue\":\"32768\"},\"TurnOffDataExecutionPreventionForExplorer\":\{"type\":\"String\",\"metadata\":\{"displayName\":\"[Preview]\:\nTurn off Data Execution Prevention for Explorer\",\"description\":\"Specifies whether to turn off Data Execution Prevention for Windows File Explorer. Disabling data execution prevention can allow certain legacy plug-in applications to function without terminating Explorer.\"},\"defaultValue\":\"0\"},\"SpecifyTheIntervalToCheckForDefinitionUpdates\":\{"type\":\"String\",\"metadata\":\{"displayName\":\"[Preview]\:\nSpecify the interval to check for definition updates\",\"description\":\"Specifies an interval at which to check for Windows Defender definition updates. The time value is represented as the number of hours between update checks.\"},\"defaultValue\":\"8\"}}.\"policyRule\":\{"if\":\{"anyOf\":\[\{"allOf\":\[\{"field\":\"type\",\"equals\":\"Microsoft.Compute/virtualMachines\"\},\{"anyOf\":\[\{"field\":\"Microsoft.Compute/imagePublisher\",\"in\":\[\"esri\",\"incredibuild\",\"MicrosoftDynamicsAX\",\"MicrosoftSharepoint\",\"MicrosoftVisualStudio\",\"MicrosoftWindowsDesktop\",\"MicrosoftWindowsServerHPCPack\"]\},\{"allOf\":\[\{"field\":\"Microsoft.Compute/imageOffer\",\"equals\":\"MicrosoftWindowsServer\"\},\{"field\":\"Microsoft.Compute/imageSKU\",\"notLike\":\"2008\"\}]\},\{"allOf\":\[\{"field\":\"Microsoft.Compute/imagePublisher\",\"equals\":\"MicrosoftSqlServer\"\},\{"field\":\"Microsoft.Compute/imageOffer\",\"notLike\":\"SQL2008\"\}]\},\{"allOf\":\[\{"field\":\"Microsoft.Com
["field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-dsvm"], 
["field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows"]]), 
["allOf": 
["field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"], 
["allOf": 
["field": "Microsoft.Compute/imagePublisher", "equals": "batch"], 
["field": "Microsoft.Compute/imagePublisher", "equals": "rendering-windows2016"], 
["allOf": 
["field": "Microsoft.Compute/imagePublisher", "equals": "center-for-internet-security-inc"], 
["field": "Microsoft.Compute/imageOffer", "like": 
"cuis-windows-server-201*"])]), 
["allOf": 
["field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"], 
["field": "Microsoft.Compute/imageOffer", "like": 
"bosh-windows-server*"])]), 
["allOf": 
["field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"], 
["field": "Microsoft.Compute/imagePublisher", 
"like": "ad*"])], 
["allOf": 
["anyOf": 
["field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": 
"true"], 
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["field": "Microsoft.Compute/imagePublisher", "notLike": 
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["allOf": 
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then": 
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[/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88- 
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parameters("AllowIndexingOfEncryptedFiles"), 
""], 
"Allow Telemetry;ExpectedValue", 
"="), 
parameters("AllowTelemetry"), 
""], 
"Always install with elevated privileges;ExpectedValue", 
"="), 
parameters("AlwaysInstallWithElevatedPrivileges"), 
""], 
"Always prompt for password upon connection;ExpectedValue", 
"="), 
parameters("AlwaysPromptForPasswordUponConnection"), 
""], 
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"Automatically send memory dumps for OS-generated error reports;ExpectedValue", 
"="), 
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""], 
"Configure Default consent;ExpectedValue", 
"="), 
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"Configure Windows SmartScreen;ExpectedValue", 
"="), 
parameters("ConfigureWindowsSmartScreen"), 
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"Disallow Digest authentication;ExpectedValue", 
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"Disallow WinRM from storing RunAs credentials;ExpectedValue", 
"="), 
parameters("DisallowWinRMFromStoringRunAsCredentials"), 
""], 
"Do not allow passwords to be saved;ExpectedValue", 
"="), 
parameters("DoNotAllowPasswordsToBeSaved"), 
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"Set client connection encryption level;ExpectedValue", 
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parameters("SetClientConnectionEncryptionLevel"), 
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"Set the default behavior for AutoRun;ExpectedValue", 
"="), 
parameters("SetTheDefaultBehaviorForAutoRun"), 
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allow indexing of encrypted files; Expected Value: [parameters("AllowIndexingOfEncryptedFiles")]

allow unencrypted traffic; Expected Value: [parameters("AllowUnencryptedTraffic")]

always install with elevated privileges; Expected Value: [parameters("AlwaysInstallWithElevatedPrivileges")]

always prompt for password upon connection; Expected Value: [parameters("AlwaysPromptForPasswordUponConnection")]

application:
  specify the maximum log file size (KB); Expected Value: [parameters("ApplicationSpecifyTheMaximumLogFileSizeKB")]

automatically send memory dumps for OS-generated error reports; Expected Value: [parameters("AutomaticallySendMemoryDumpsForOSGeneratedErrorReports")]

configure default consent; Expected Value: [parameters("ConfigureDefaultConsent")]

configure windows smart screen; Expected Value: [parameters("ConfigureWindowsSmartScreen")]

disallow digest authentication; Expected Value: [parameters("DisallowDigestAuthentication")]

disallow winrm from storing runas credentials; Expected Value: [parameters("DisallowWinRMFromStoringRunAsCredentials")]
do not allow passwords to be saved; Expected Value: [parameters("DoNotAllowPasswordsToBeSaved")]

security:
  specify the maximum log file size (KB); Expected Value: [parameters("SecuritySpecifyTheMaximumLogFileSizeKB")]

set client connection encryption level; Expected Value: [parameters("SetClientConnectionEncryptionLevel")]

setup:
  specify the maximum log file size (KB); Expected Value: [parameters("SetupSpecifyTheMaximumLogFileSizeKB")]

system:
  specify the maximum log file size (KB); Expected Value: [parameters("SystemSpecifyTheMaximumLogFileSizeKB")]

turn off data execution prevention for explorer; Expected Value: [parameters("TurnOffDataExecutionPreventionForExplorer")]

the interval to check for definition updates; Expected Value: [parameters("SpecifyTheIntervalToCheckForDefinitionUpdates")]

condition: equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines")); apiVersion: "2018-11-20"; type: "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments"; name: [concat(parameters("vmName"), "/Microsoft.GuestConfiguration/", parameters("configurationName"))]; location: [parameters("location")]; properties: {"guestConfiguration": {"name": [parameters("configurationName")], "version": "1."}, "configurationParameter": [{"name": "Send"}]}];
file samples when further analysis is required:

- **Allow indexing of encrypted files:**
- **Allow Telemetry:**
- **Allow unencrypted traffic:**
- **Always install with elevated privileges:**
- **Always prompt for password upon connection:**

**Application:**
- Specify the maximum log file size (KB)
- Automatically send memory dumps for OS-generated error reports

**Security:**
- Specify the maximum log file size (KB)
- Set client connection encryption level
- Do not allow passwords to be saved

**Setup:**
- Specify the maximum log file size (KB)
- Specify the maximum log file size (KB)
- Turn off Data Execution Prevention for Explorer

**System:**
- Specify the interval to check for definition updates

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**Open Source Used In SDWan 20.6.1 17836**
Show audit results from Windows VMs configurations in "System Audit Policies - System", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative.

This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - System". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol,

"metadata":{"version":"1.0.0-preview","category":"Guest Configuration","preview":true},
"policyRule":{"if":{"anyOf":[{"field":"Microsoft.Compute/virtualMachines","exists":true},{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftDynamicsAX"},{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftSharepoint"},{"field":"Microsoft.Compute/imageOffer","equals":"rendering-windows2016"},{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-security"},{"field":"Microsoft.Compute/imagePublisher","equals":"bosh-windows-server"},{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructure-services"}],"then":{"effect":"auditIfNotExists"}}}]}},
Managed Control 1509 - Position Risk Designation, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1509"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/70792197-9bfc-4813-905a-bd33993e327f"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "70792197-9bfc-4813-905a-bd33993e327f"}, {"properties": {"displayName": "Microsoft Managed Control 1541 - Risk Assessment", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1541"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/70f6af82-7be6-44aa-9b15-8b9231b2e434"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "70f6af82-7be6-44aa-9b15-8b9231b2e434"}, {"properties": {"displayName": "Microsoft Managed Control 1691 - Information System Monitoring | Automated Tools For Real-Time Analysis", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1691"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/71475fb4-49bd-450b-a1a5-f63894c24725"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "71475fb4-49bd-450b-a1a5-f63894c24725"}, {"properties": {"displayName": "Microsoft Managed Control 1481 - Temperature And Humidity Controls", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1481"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/717a1c78-a267-4f56-ac58-ee6c54dc4339"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "717a1c78-a267-4f56-ac58-ee6c54dc4339"}, {"properties": {"displayName": "Microsoft Managed Control 1129 - Time Stamps | Synchronization With Authoritative Time Source", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1129"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/717a1c78-a267-4f56-ac58-ee6c54dc4339"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "717a1c78-a267-4f56-ac58-ee6c54dc4339"}
Open Source Used In SDWan

Show audit results from Windows VMs configurations in "Administrative Templates - Network". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Administrative Templates - Network". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Ensure that "Python version" is the latest, if used as a part of the Function app. Newer versions are recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.
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            {
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                "like": "functionapp*"
            }
        ],
        "then": {
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            "details": {
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                "name": "web",
                "existenceCondition": {
                    "anyOf": [
                        {
                            "allOf": [
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                                    "field": "Microsoft.Web/sites/config/web.linuxFxVersion",
                                    "notContains": "PYTHON"
                                },
                                {
                                    "field": "Microsoft.Web/sites/config/web.pythonVersion",
                                    "equals": ""
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                            ]
                        },
                        {
                            "allOf": [
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                                    "equals": ""
                                },
                                {
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                            ]
                        }
                    ],
                    "notContains": "Python"
                }
            }
        }
    }
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/7238174a-fd10-4ef0-817e-fc820a951d73",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "7238174a-fd10-4ef0-817e-fc820a951d73"},
"properties": {
    "displayName": "Ensure that 'PHP version' is the latest, if used as a part of the WEB app",
    "policyType": "BuiltIn",
    "mode": "Indexed",
    "description": "Periodically, newer versions are released for PHP software either due to security flaws or to include additional functionality. Using the latest PHP version for web apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.",
    "metadata": {
        "version": "1.0.0",
        "category": "App Service"
    },
    "parameters": {
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            "metadata": {
                "displayName": "Effect",
                "description": "Enable or disable the execution of the policy"
            },
            "allowedValues": ["AuditIfNotExists", "Disabled"],
            "defaultValue": "AuditIfNotExists"},
        "PHPLatestVersion": {
            "type": "String",
            "metadata": {
                "displayName": "Latest PHP version",
                "description": "Latest supported PHP version for App Services"},
            "defaultValue": "7.3"}],
    "policyRule": {
        "if": {
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                    "equals": "Microsoft.Web/sites"
                },
                {
                    "field": "kind",
                    "like": "app*"
                }
            ],
            "then": {
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                "details": {
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                    "name": "web",
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                                        "notContains": "PHP"
                                    },
                                    {
                                        "field": "Microsoft.Web/sites/config/web.pythonVersion",
                                        "equals": ""
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                                        "equals": parameters("PHPLatestVersion")
                                    }
                                ]
                            }
                        ],
                        "notContains": "PHP"
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                }
            }
        }
    }
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"name": "7261b898-8a84-4db8-9e04-18527132abb3"},
"properties": {
    "displayName": "[Preview]: Deploy prerequisites to audit Windows VMs that allow re-use of the previous 24 passwords",
    "policyType": "BuiltIn",
    "mode": "Indexed",
    "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines that allow re-use of the previous 24 passwords. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol",
    "metadata": {
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        "requiredProviders": ["Microsoft.GuestConfiguration"],
        "preview": true
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                    "equals": "Microsoft.Compute/virtualMachines"
                },
                {
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                    "equals": "MicrosoftWindowsServer"
                }
            ]
        }
    }
}
Definitions/726671ac-c4de-4908-8c7d-6043ae62e3b6","type":"Microsoft.Authorization/policyDefinitions","name":"726671ac-c4de-4908-8c7d-6043ae62e3b6","properties":{"displayName":"Add a tag to resource groups","policyType":"BuiltIn","mode":"All","description":"Adds the specified tag and value when any resource group missing this tag is created or updated. Existing resource groups can be remediated by triggering a remediation task. If the tag exists with a different value it will not be changed.","metadata":{"version":"1.0.0","category":"Tags"},"parameters":{"tagName":{"type":"String","metadata":{"displayName":"Tag Name","description":"Name of the tag, such as "environment"."}},"tagValue":{"type":"String","metadata":{"displayName":"Tag Value","description":"Value of the tag, such as "production"."}}},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Resources/subscriptions/resourceGroups"},"[concat(''tags['',parameters(''tagName''),'']''\])]","exists":"false"],"then":{"effect":"modify","details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],"operations":[{"operation":"add","field":"[concat(''tags['',parameters(''tagName''),'']''\])]","value":"[parameters(''tagValue'')]}]}}},"id "/providers/Microsoft.Authorization/policyDefinitions/726aca4c-86e9-4b04-b0c5-073027359532","type":"Microsoft.Authorization/policyDefinitions","name":"726aca4c-86e9-4b04-b0c5-073027359532","properties":{"displayName":"Microsoft Managed Control 1524 - Personnel Transfer","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Personnel Security control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":{"providers/Microsoft.PolicyInsights/policyMetadata/ACF1524"."},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resorceGroups"],"value":"false","equals":"true"}],"then":{"effect":"audit"}}},"id "/providers/Microsoft.Authorization/policyDefinitions/72f1cb4e-2439-4fe8-88ea-b8671ce3c268","type":"Microsoft.Authorization/policyDefinitions","name":"72f1cb4e-2439-4fe8-88ea-b8671ce3c268","properties":{"displayName":"Microsoft Managed Control 1393 - Information Spillage Response | Exposure To Unauthorized Personnel","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":{"providers/Microsoft.PolicyInsights/policyMetadata/ACF1393"."},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resorceGroups"],"value":"false","equals":"true"}],"then":{"effect":"audit"}}},"id "/providers/Microsoft.Authorization/policyDefinitions/731856d8-1598-4b75-92de-7d46235747c0","type":"Microsoft.Authorization/policyDefinitions","name":"731856d8-1598-4b75-92de-7d46235747c0","properties":{"displayName":"Microsoft Managed Control 1101 - Audit And Accountability Policy And Procedures","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":{"providers/Microsoft.PolicyInsights/policyMetadata/ACF1101"."},"policyRule ":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resorceGroups"],"value":"false","equals":"true"}],"then":{"effect":"audit"}}},"id "/providers/Microsoft.Authorization/policyDefinitions/7327b708-f0e0-457d-9d2a-527ffcc9e9a65","type":"Microsoft.Authorization/policyDefinitions","name":"7327b708-f0e0-457d-9d2a-527ffcc9e9a65".,"properties":{"displayName":"Microsoft
Managed Control 1456 - Physical Access
Control","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Physical and Environmental Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1456"},"policyRule":{"if":{"allOf":["field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":false,"equals":true"},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/733ba9e3-9e7c-440a-a7aa-6196a90a2870","type":"Microsoft.Authorization/policyDefinitions","name":"733ba9e3-9e7c-440a-a7aa-6196a90a2870"},{"properties":{"displayName":"Deploy Workflow Automation for Azure Security Center recommendations","policyType":"BuiltIn","mode":"All","description":"Enable automation of Azure Security Center recommendations. This policy deploys a workflow automation with your conditions and triggers on the assigned scope.
To deploy this policy on newly created subscriptions, open the Compliance tab, select the relevant non-compliant assignment and create a remediation task.","metadata":{"version":1.0.0,"category":"Security Center"},"parameters":{"automationName":{"type":"String","metadata":{"displayName":"Automation name","description":"This is the automation name."}},"resourceGroupName":{"type":"String","metadata":{"displayName":"Resource group name","description":"The resource group name where the workflow automation is created. If you enter a name for a resource group that doesn't exist, it'll be created in the subscription."}},"resourceGroupLocation":{"type":"String","metadata":{"displayName":"Resource group location","description":"The location where the resource group and the workflow automation are created."}},"resourceGroupName":false,"recommendationNames":{"type":"Array","metadata":{"displayName":"Recommendation IDs","description":"For all recommendations, leave empty. For specific recommendations, enter a list of recommendation IDs separated by semicolons (";"). Recommendation IDs are available through the Assessments API (https://docs.microsoft.com/en-us/rest/api/securitycenter/assessments), or Azure Resource Graph Explorer (https://portal.azure.com/#blade/HubsExtension/ArgQueryBlade), choose securityresources and microsoft.security/assessments. "},"defaultValue":[]},"recommendationSeverities":{"type":"Array","metadata":{"displayName":"Recommendation severities","description":"Determines recommendation severities. Example: High;Medium;Low;"},"allowedValues":["High","Medium","Low"],"defaultValue":[]}},"recommendationStates":{"type":"Array","metadata":{"displayName":"Recommendation states","description":"Determines recommendation states. Recommendations with unhealthy state require your attention to resolve. When a recommendation state is healthy, it no longer applies to the resource as Security Center detects it as healthy. A recommendation is not-applicable if, for example, it was disabled in the Security Policy. Example: Healthy;Unhealthy;Not Applicable;"},"allowedValues":["Healthy","Unhealthy","Not Applicable"],"defaultValue":[]}},"logicAppResourceId":{"type":"String","metadata":{"displayName":"Logic App","description":"The Logic App that is triggered. If you do not already..."}}
have a logic app, visit Logic Apps to create one
(https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/Microsoft.Logic%2Fworkflows),
"strongType":"Microsoft.Logic/workflows","assignPermissions":true},{"logicAppTrigger":{"type":"String","metadata":{"displayName":"Logic app trigger","description":"The trigger connector of the logic app that is triggered. Possible values: "Manual (Incoming HTTP request)", "When an Azure Security Center Recommendation is created or triggered"."},"allowedValues":['Manual (Incoming HTTP request)',"When an Azure Security Center Recommendation is created or triggered']}}},
"policyRule":{"if":{"field":"type","equals":"Microsoft.Resources/subscriptions"},"then":{"effect":"deployIfNotExists","details":{"type":"Microsoft.Security/automations","name":parameters(automationName)),"existenceScope":resourcegroup,"ResourceGroupName":parameters(resourceGroupName)),
"deploymentScope":subscription,"roleDefinitionIds":/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c],
"deployment":{"location":"westerurope","properties":{"mode":"incremental","template":{"$schema":"https://schema.management.azure.com/schemas/2018-05-01/subscriptionDeploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{}},"variables":{"scopeDescription":"scope for subscription 0"},
"recommendationNamesLength":length(parameters(recommendationNames)),"recommendationSeveritiesLength":length(parameters(recommendationSeverities)),
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"Open Source Used In SDWan 20.6.1 17845
Automation for Azure Security Center recommendations via policy, "isEnabled":true,"scopes":
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/providers/Microsoft.Authorization/policyDefinitions/73d6ab6c-2475-4850-af6d-43795f3492ef","type":
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{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId":
/providers/Microsoft.PolicyInsights/policyMetadata/ACF1581"}, "policyRule 
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"Allowed storage account SKUs", "mode": "Indexed", "description": "This policy enables you to specify a set of storage account SKUs that your organization can deploy.
","metadata":
{"version": "1.0.0", "category": "Storage"}, "parameters":
["listOfAllowedSKUs": {"type": "Array"}].
The list of SKUs that can be specified for storage accounts.

Allowed SKUs, strongType: "StorageSKUs"},

"policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Storage/storageAccounts"}, {"not": {"field": "Microsoft.Storage/storageAccounts/sku.name", "in": [parameters["listOfAllowedSKUs"]]}]}, {"then": {"effect": "Deny"}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/7433c107-6db4-4ad1-b57a-a76dce0154a1"},

"properties": {"displayName": "Microsoft Managed Control 1631 - Boundary Protection | Deny By Default / Allow By Exception", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1631"},

"policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, {"then": {"effect": "audit"}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/74ae9b8e-e7bb-4c9c-992f-c535282f7a2c"},

"properties": {"displayName": "Ensure that "Python version" is the latest, if used as a part of the Api app", "policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, newer versions are released for Python software either due to security flaws or to include additional functionality. Using the latest Python version for Api apps is recommended in order to take advantage of security fixes, if any, and or new functionalities of the latest version.", "metadata": {"version": "1.0.0", "category": "App Service"},

"parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"},

"allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "WindowsPythonLatestVersion": "3.6", "LinuxPythonLatestVersion": "3.8"},


"properties": {"displayName": "Microsoft Managed Control 1417 - Nonlocal Maintenance | Comparable Security / Sanitization", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1417"},

"policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, {"then": {"effect": "audit"}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/74c3584d-afae-46f7-a20a-6f8adba71a16"}
Audit enabling of diagnostic logs in App Services, "policyType": "BuiltIn", "mode": "All", "description": "Audit enabling of diagnostic logs on the app. This enables you to recreate activity trails for investigation purposes if a security incident occurs or your network is compromised. 

- metadata: "version": "1.0.0-deprecated", "category": "App Service", "deprecated": true, "parameters": "effect": "Audit", "metadata": "displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy", "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"", "policyRule": "if": "allOf": ["field": "type", "equals": "Microsoft.Web/sites/config"], "then": "parameters(\"effect\")"", "id": "/providers/Microsoft.Authorization/policyDefinitions/752c6934-9bcc-4749-b004-655e676ae2ac", "type": "Microsoft.Authorization/policyDefinitions", "name": "752c6934-9bcc-4749-b004-655e676ae2ac", "properties": "displayName": "Microsoft

Managed Control 1468 - Visitor Access Records | Automated Records Maintenance / Review", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1468", "policyRule": "if": "allOf": ["field": "type", "equals": "Microsoft.Web/sites/config/detailedErrorLoggingEnabled"], "then": "parameters(\"effect\")"", "id": "/providers/Microsoft.Authorization/policyDefinitions/75603f96-80a1-4757-991d-5a1221765ddd", "type": "Microsoft.Authorization/policyDefinitions", "name": "75603f96-80a1-4757-991d-5a1221765ddd", "properties": "displayName": "Microsoft

Managed Control 1053 - Session Lock | Pattern-Hiding Displays", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1053", "policyRule": "if": "allOf": ["field": "type", "equals": "Microsoft.DBforMySQL/servers"], "then": "parameters(\"effect\")"", "id": "/providers/Microsoft.Authorization/policyDefinitions/7582b19c-9d8a-438e-aed8-ede59ac35ba3", "type": "Microsoft.Authorization/policyDefinitions", "name": "7582b19c-9d8a-438e-aed8-ede59ac35ba3", "properties": "displayName": "Private endpoint should be enabled for MySQL servers", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits MySQL servers not configured to use a private endpoint. For more details, visit https://aka.ms/mysqlprivatelink.

- parameters": "effect": "AuditIfNotExists", "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"", "policyRule": "if": "allOf": ["field": "type", "equals": "Microsoft.DBforMySQL/servers"], "then": "parameters(\"effect\")"", "details": "Microsoft DB for MySQL servers/privateEndpointConnections/existenceCondition": "Approved"}
BYOS","SLES-Priority","SLES-BYOS","SLES-SAPCAL","SLES-Standard"]},{"anyOf": [{"field":"Microsoft.Compute/imageSKU","in":["12-SP2","12-SP3","12-SP4"]}],{"allOf": [{"field":"Microsoft.Compute/imagePublisher","equals":"OpenLogic"}, {"field":"Microsoft.Compute/imageOffer","in":["CentOS","Centos-LVM","CentOS-SRIOV"]}],{"anyOf": [{"field":"Microsoft.Compute/imageSKU","like":"6\.*"}, {"field":"Microsoft.Compute/imagePublisher","equals":cloudera"}, {"field":"Microsoft.Compute/imageOffer","equals":cloudera-centos"}, {"field":"Microsoft.Compute/imageSKU","like":"7\*"}]}], then: {"effect": "deployIfNotExists", "details": {"type": "Microsoft.Compute/virtualMachineScaleSets/extensions", "roleDefinitionIds": "/providers/microsoft.authorization/roleDefinitions/9980e02c-c2be-4d73-94e8-173b1dc7cfe3", "existenceCondition": {"allOf": [{"field":"Microsoft.Compute/virtualMachineScaleSets/extensions/type","equals":"DependencyAgentLinux"}, {"field":"Microsoft.Compute/virtualMachineScaleSets/extensions/publisher","equals":Microsoft.Azure.Monitoring.DependencyAgent"}], "deployment": {"properties": {"mode": "incremental", "template": "{Schemas": http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"vmName": {"type": "string"}, "location": {"type": "string"}}, "variables": {"vmExtensionName": "DependencyAgent", "vmExtensionPublisher": Microsoft.Azure.Monitoring.DependencyAgent, "vmExtensionType": "DependencyAgentLinux", "vmExtensionTypeHandlerVersion": "9.7"}, "resources": [{"type": "Microsoft.Compute/virtualMachineScaleSets/extensions", "name": "[concat(parameters('vmName'))]", "apiVersion": "2018-06-01", "location": [parameters('location')], "properties": {"publisher": [variables('vmExtensionPublisher')], "type": [variables('vmExtensionType')], "typeHandlerVersion": [variables('vmExtensionTypeHandlerVersion')], "autoUpgradeMinorVersion": true}], "outputs": {"policy": {"type": "string", "value": [concat('Enabled extension for: ', parameters('vmName'))]}}}, parameters: {"vmName": {"value": [field('name')], "location": {"value": [field('location')]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/765266ab-e40e-4c61-bcb2-5a5275db7c0", "type": "Microsoft.Authorization/policyDefinitions", "name": "765266ab-e40e-4c61-bcb2-5a5275db7c0"}, {"properties": {"displayName": "Microsoft Managed Control 1055 - Session Termination| User-Initiated Logouts / Message Displays"}, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control","metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1055"}, "policyRule": {"if": [{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/765ddcd5db969", "type": "Microsoft.Authorization/policyDefinitions", "name": "765ddcd5db969"}, {"properties": {"displayName": "Audit delegation of scopes to a managing tenant", "policyType": "BuiltIn", "mode": "All", "description": "Audit delegation of scopes to a managing tenant via Azure Lighthouse.", "metadata": {"version": "1.0.0", "category": "Lighthouse"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": [{"allOf": [{"field": "type", "equals": "Microsoft.ManagedServices/registrationAssignments"}, {"value": true, "equals": true}]}], "then": {"effect": parameters('effect')}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/76bed37b-484f-430f-a009-fd7592dfff18", "type": "Microsoft.Authorization/policyDefinitions", "name": "76bed37b-484f-430f-a009-fd7592dfff18"}, {"properties": {"displayName": "Microsoft Managed Control 1058 - Permitted Actions Without Identification Or..."}}}
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Managed Control 1258 - Contingency Training

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1258" }, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true"}], "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7814506c-382c-4d33-a142-249dd4a0dbff" }

Managed Control 1178 - Baseline Configuration | Reviews And Updates

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1178" }, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true"}], "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7818b8f4-47c6-441a-90ae-12ce04e99893" }

Managed Control 1057 - Permitted Actions Without Identification Or Authentication

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1057" }, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true"}], "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/78255758-6d45-4bf0-a005-7016bc03b13c" }

Managed Control 1700 - Information System Monitoring | Unauthorized Network Services

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1700" }, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true"}], "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7831b4ba-c3f4-4cb1-8c11-ef8d59438cd5" }

Managed Control 1010 - Account Management

"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1010" }, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true"}], "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/784663a8-1eb0-418a-a98c-24d19bc1bb62" }

Open Source Used In SDWan 20.6.1 17852
Managed Control 1216 - Least Functionality | Periodic Review
policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1216" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true} ], "then": {"effect": audit } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/7894fe6a-f5cb-44c8-ba90-c3f25f4f9484" },

Managed Control 1639 - Boundary Protection | Isolation Of Information System Components
policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1639" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true} ], "then": {"effect": audit } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/78e8e649-50f6-4fe3-99ac-fedc2e63b03f" },

Managed Control 1647 - Cryptographic Protection
policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1647" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true} ], "then": {"effect": audit } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/791cf15-6974-42a0-9f4c-2d4b82f4a78c" },

Managed Control 1510 - Position Risk Designation
policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1510" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true} ], "then": {"effect": audit } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/79da5b09-0e7e-499e-adda-141b069c7998" },

Managed Control 1384 - Information Spillage Response
policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1384" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true} ], "then": {"effect": audit } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/79fbc228-461c-4a45-9004-a865ca0728a7" },

prerequisites to audit Windows Server VMs on which Windows Serial Console
This policy creates a Guest Configuration assignment to audit Windows Server virtual machines on which Windows Serial Console is not enabled. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

### Policy Details

**Policy Type:** BuiltIn

**Description:** This policy creates a Guest Configuration assignment to audit Windows Server virtual machines on which Windows Serial Console is not enabled. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

**Required Providers:**
- `Microsoft.GuestConfiguration`

**Parameters:**
- `EMSPortNumber` (type: String, display name: EMS Port Number, description: An integer indicating the COM port to be used for the Emergency Management Services (EMS) console redirection. For more information on EMS settings, please visit https://aka.ms/gcpolwsc, allowed values: `[1", "2", "3", "4"]`, default value: `1`)
- `EMSBaudRate` (type: String, display name: EMS Baud Rate, description: An integer indicating the baud rate to be used for the Emergency Management Services (EMS) console redirection. For more information on EMS settings, please visit https://aka.ms/gcpolwsc, allowed values: `['9600", "19200", "38400", "57600", "115200"]`, default value: `115200`)

**Policy Rule:**
- If:
  - Any of:
    - All of:
      - Field: `type`, equals: `Microsoft.Compute/virtualMachines`
      - Any of:
        - Field: `EMSPortNumber`, equals: `1`
        - Field: `Microsoft.Compute/imageSKU`, notLike: `2008*`
        - Field: `Microsoft.Compute/imagePublisher`, equals: `MicrosoftWindowsServer`
        - Field: `Microsoft.Compute/imageOffer`, notLike: `SQL2008*`
        - Field: `Microsoft.Compute/imagePublisher`, equals: `Microsoft-dsvm`
        - Field: `Microsoft.Compute/imageOffer`, equals: `dsvm-windows`
      - All of:
        - Field: `Microsoft.Compute/imagePublisher`, equals: `microsoft-ads`
  - All of:
    - Field: `Microsoft.Compute/imagePublisher`, equals: `center-for-internet-security-inc`
    - Field: `Microsoft.Compute/imageOffer`, like: `cis-windows-server-2016*`
  - All of:
    - Field: `Microsoft.Compute/imagePublisher`, equals: `pivotal`
    - Field: `Microsoft.Compute/imageOffer`, like: `bosh-windows-server*`
  - All of:
    - Field: `Microsoft.Compute/imagePublisher`, equals: `cloud-infrastructure-services`
    - Field: `Microsoft.Compute/imageOffer`, like: `ad*`
  - Any of:
    - Field: `Microsoft.Compute/imagePublisher`, equals: `microsoft-cloud-on-azure`
    - Field: `Microsoft.Compute/imageOffer`, notLike: `windows*`
    - Field: `WindowsServer`
Name": {"value": "WindowsSerialConsole"}, "EMSPortNumber": {"value": [parameters("EMSPortNumber")], "EMSBaudRate": {"value": [parameters("EMSBaudRate")], "template": {"$schema": "https://schema.management.azure.com/schemas/2015-01-01 deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"vmName": {"type": "string"}, "location": {"type": "string"}, "configurationName": {"type": "string"}, "EMSPortNumber": {"value": [parameters("EMSPortNumber")], "EMSBaudRate": {"value": [parameters("EMSBaudRate")], "resources": [{"condition": [equals(toLower(parameters("type")), toLower("Microsoft.HybridCompute/machines"))], "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": [concat(parameters("vmName"), "/Microsoft.GuestConfiguration\"{\"configurationName\"})], "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": "1.*", "configurationParameter": {"name": ["WindowsSerialConsole"]}, ["EMSPortNumber", "value": [parameters("EMSPortNumber")], ["EMSBaudRate", "value": [parameters("EMSBaudRate")]]}], "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2018-11-20", "type": "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", "name": [concat(parameters("vmName"), "/Microsoft.GuestConfiguration\"{\"configurationName\"})], "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": "1.*", "configurationParameter": {"name": ["WindowsSerialConsole"]}, ["EMSPortNumber", "value": [parameters("EMSPortNumber")], ["EMSBaudRate", "value": [parameters("EMSBaudRate")]]}], "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2019-07-01", "type": "Microsoft.Compute/virtualMachines", "identity": {"type": "SystemAssigned"}, "name": [parameters("vmName")], "location": [parameters("location")], "condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion": "2015-05-01-preview", "name": [concat(parameters("vmName"), "/AzurePolicyforWindows"), "type": "Microsoft.Compute/virtualMachines/extensions", "location": [parameters("location")], "properties": {"publisher": "Microsoft.GuestConfiguration", "type": "ConfigurationforWindows", "typeHandlerVersion": "1.1", "autoUpgradeMinorVersion": true, "settings": {}, "dependsOn": ["[concat("Microsoft.Compute/virtualMachines\", parameters("vmName")\", "/providers/Microsoft.GuestConfiguration\"{\"configurationAssignments\"})")]"]}], "/id": "providers/Microsoft.Authorization/policyDefinitions/7a031c68-d6ab-406e-a506-697a19c634b0", "type": "Microsoft.Authorization/policyDefinitions", "name": "7a031c68-d6ab-406e-a506-697a19c634b0", "properties": {"displayName": "Microsoft Managed Control 1093 - Role-Based Security Training", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Awareness and Training control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1093"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}]], "/id": "providers/Microsoft.Authorization/policyDefinitions/7a0bdeeb-15f4-47e8-a1da-9769f845fd", "type": "Microsoft.Authorization/policyDefinitions", "name": "7a0bdeeb-15f4-47e8-a1da-9769f845fd", "properties": {"displayName": "Microsoft Managed Control 1708 - Security Function Verification", "policyType": "Static", "mode": "Indexed", "description": "Microsoft
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        "equals": true
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  "mode": "Indexed",
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  "metadata": {
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    "mode": "Indexed",
    "description": "Microsoft implements this System and Information Integrity control",
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            "equals": true
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      "name": "7a87f7c7f-301e-49f3-ba2a-4d74f24f4a97"
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      "description": "Microsoft implements this Access Control control",
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        "policyType": "Static",
        "mode": "Indexed",
        "description": "Microsoft implements this Planning control",
        "metadata": {
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          "category": "Regulatory Compliance",
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                "equals": true
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            }
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          "type": "Microsoft.Authorization/policyDefinitions",
          "name": "7ad5f307-e045-46f7-8214-5bd7e973737"
        },
        "properties": {
          "displayName": "Microsoft Managed Control 1636 - Boundary Protection | Isolation Of Security Tools / Mechanisms / Support Components",
          "policyType": "Static",
          "mode": "Indexed",
          "description": "Microsoft implements this System and Communications Protection"
logs in Virtual Machine Scale Sets should be enabled", "policyType": "BuiltIn", "mode": "Indexed", "description": "It is recommended to enable Logs so that activity trail can be recreated when investigations are required in the event of an incident or a compromise.", "metadata": {"version": "1.0.0", "category": "Compute"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy."}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Compute/virtualMachineScaleSets"}, "then": {"parameters": "effect"}, "details": {"type": "Microsoft.Compute/virtualMachineScaleSets/extensions", "existenceCondition": {"anyOf": ["Microsoft.Compute/virtualMachineScaleSets/extensions/" + "types/" + "IaaS.Diagnostics", "Microsoft.Compute/virtualMachineScaleSets/extensions/publisher/" + "equals/" + "Microsoft.Azure.Diagnostics"]}, "allOf": ["Microsoft.Compute/virtualMachineScaleSets/extensions/" + "types/" + "LinuxDiagnostic", "Microsoft.Compute/virtualMachineScaleSets/extensions/publisher/" + "in/" + "["Microsoft.OSTCExtensions", "Microsoft.Azure.Diagnostics"]"]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7c1b1214-f927-48bf-8882-84f0af6588b1", "type": "Microsoft.Authorization/policyDefinitions", "name": "7c1b1214-f927-48bf-8882-84f0af6588b1"}, "properties": {"displayName": "[Deprecated]: Require blob encryption for storage accounts", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy ensures blob encryption for storage accounts is turned on. It only applies to Microsoft.Storage resource types, not other storage providers. This policy is deprecated because storage blob encryption is now enabled by default, and can no longer be disabled."}, "metadata": {"version": "1.0.0-deprecated", "category": "Storage", "deprecated": "true"}, "policyRule": {"if": {"allOf": ["field": "type", "equals": "Microsoft.Storage/storageAccounts"], "field": "Microsoft.Storage/storageAccounts/enableBlobEncryption", "equals": "false"}, "then": {"effect": "deny"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7c5a74bf-a9e4-4a74-8fcf-644d1e06e66f", "type": "Microsoft.Authorization/policyDefinitions", "name": "7c5a74bf-a9e4-4a74-8fcf-644d1e06e66f"}, "properties": {"displayName": "Microsoft Managed Control 1143 - Security Assessment And Authorization Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1143"}, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7c6de11b-5f51-4f7c-8d83-d2467c8a16e", "type": "Microsoft.Authorization/policyDefinitions", "name": "7c6de11b-5f51-4f7c-8d83-d2467c8a16e"}, "properties": {"displayName": "Microsoft Managed Control 1051 - Session Lock", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1051"}, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7b9694eed-7081-43c6-867c-41c76c961043", "type": "Microsoft.Authorization/policyDefinitions", "name": "7b9694eed-7081-43c6-867c-41c76c961043"}, "properties": {"displayName": "Diagnostic Used In SDWan 20.6.1 17857 Open Source Used In SDWan 20.6.1 17857"}
Managed Control 1279 - Telecommunications

Services", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1279" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": "audit" }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7cac6ee9-b58b-40c8-a5ce-f0efc3d9b339", "type": "Microsoft.Authorization/policyDefinitions", "name": "7cac6ee9-b58b-40c8-a5ce-f0efc3d9b339" ], "properties": {"displayName": "Microsoft Managed Control 1279 - Telecommunications" } }

Cache for Redis should reside within a virtual network", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits whether the Azure Cache for Redis resource has a non-public endpoint by being deployed into a virtual network." }, "metadata": {"version": "1.0.0", "category": "Cache" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match." }, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit" } }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Cache/redis" }, {"field": "Microsoft.Cache/Redis/subnetId", "exists": false }], "then": {"effect": "[parameters(''effect'')]", "id": "providers/Microsoft.Authorization/policyDefinitions/7d92e0a-7acd-40d2-a975-dca21cae48c4", "type": "Microsoft.Authorization/policyDefinitions", "name": "7d92e0a-7acd-40d2-a975-dca21cae48c4" }, "properties": {"displayName": "Azure Managed Control 1109 - Content Of Audit Records | Centralized Management Of Planned Audit Record Content", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1109" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": "audit" }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7db274cc2ace", "type": "Microsoft.Authorization/policyDefinitions", "name": "7db274cc2ace" }, "properties": {"displayName": "Microsoft Managed Control 1201 - Security Impact Analysis | Separate Test Environments", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1201" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": "audit" }}, "id": "/providers/Microsoft.Authorization/policyDefinitions/7daef997-fdd3-461b-8807-a608a6dd70f1", "type": "Microsoft.Authorization/policyDefinitions", "name": "7daef997-fdd3-461b-8807-a608a6dd70f1" }, "properties": {"displayName": "Microsoft Managed Control 1471 - Emergency Shutoff", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1471" }, "policyRule
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For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Show audit results from Windows VMs that have not restarted within the specified number of days," policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that have not restarted within the specified number of days.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

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Deploy prerequisites to audit Windows VMs that do not have the password complexity setting enabled", "policyType": "BuiltIn", "mode": "Indexed", "description": "This
policy creates a Guest Configuration assignment to audit Windows virtual machines that do not have the password complexity setting enabled. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol,
parameters("configurationName")}
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  "guestConfiguration": {
    "name": [parameters("configurationName")],
    "version": ".1" | {}
  },
  "condition": [equals(toLower(parameters("type")),
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  "apiVersion": "2019-07-01",
  "type": "Microsoft.Compute/virtualMachines",
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    "name": [parameters("vmName")],
    "location": [parameters("location")],
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"displayName": "Microsoft Managed Control 1191 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Configuration Management control", 
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  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1191"
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  }
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"name": "Microsoft.Authorization/policyDefinitions",
"displayName": "Microsoft Managed Control 1520 - Personnel Termination",
"policyType": "Static",
"mode": "Indexed",
"description": "Microsoft implements this Personnel Security control",
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  "category": "Regulatory Compliance",
  "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1520"
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        "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
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        "value": false,
        "equals": true
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    ],
    "then": {
      "effect": "audit"
    }
  }
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"id": "/providers/Microsoft.Authorization/policyDefinitions/7f2c513b-eb16-463b-b469-c10e5fa94f0a",
"name": "Microsoft.Authorization/policyDefinitions",
"displayName": "[Preview]: Show audit results from Windows VMs configurations in "System Audit Policies - Privilege Use"",
"policyType": "BuiltIn",
"mode": "All",
"description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Privilege Use". For more information"
on Guest Configuration policies, please visit https://aka.ms/gcpol,"metadata":{"version":"1.0.0-preview","category":"Guest Configuration","preview":true},"policyRule":{"if":{"anyOf":[{"allOf":{"field":"type","equals":"Microsoft.Compute/virtualMachines"},"anyOf":{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"],"allOf":{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"}}},{"allOf":{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftSQLServer"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}},"allOf":{"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-dsvm"},{"field":"Microsoft.Compute/imageOffer","equals":"dsvm-windows"}]}},"allOf":{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructure-services"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}},{"allOf":{"anyOf":{"field":"Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration","exists":"true"},{"field":"Microsoft.Compute/virtualMachine/s/storageProfile.osDisk.osType","like":"Windows*"}},{"anyOf":{"field":"Microsoft.Compute/imagePublisher","exists":"false"},{"allOf":{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}}},{"allOf":{"field":"type","equals":"Microsoft.HybridCompute/machines"},{"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}}},"then":{"effect":"auditIfNotExists","details":{"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"AzureBaseline_SystemAuditPoliciesPrivilegeUse","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals":"Compliant"}}}}},id":"/providers/Microsoft.Authorization/policyDefinitions/7f4e96d1-e4f3-4dbb-b767-33ca4d8f8d7c","properties":{"displayName":"Audit diagnostic setting","policyType":"BuiltIn","mode":"All","description":"Audit diagnostic setting for selected resource types","metadata":{"version":"1.0.0","category":"Monitoring"},"parameters":{"listOfResourceTypes":{"type":"Array","metadata":{"displayName":"Resource Types","longName":"Resource Types","strongType":"resourceTypes"}}},"policyRule":{"if":{"field":"type","in":["parameters(listOfResourceTypes)"]},"then":{"effect":"AuditIfNotExists","details":{"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"AzureBaseline_SystemAuditPoliciesPrivilegeUse","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals":"Compliant"}}}}},id":"/providers/Microsoft.Authorization/policyDefinitions/7f89b1eb-583c-429a-8828-af049802c1d9","properties":{"displayName":"Microsoft Managed Control 1117 - Audit Review, Analysis, And Reporting | Process Integration","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control"}}}}}
Auditing settings should have Action-Groups configured to capture critical activities, policyType: "BuiltIn", mode": "Indexed", description": "The AuditActionsAndGroups property should contain at least SUCCESSFUL_DATABASE_AUTHENTICATION_GROUP, FAILED_DATABASE_AUTHENTICATION_GROUP, BATCH_COMPLETED_GROUP to ensure a thorough audit logging.

Managed Control 1703 - Security Alerts, Advisories, And Directives, policyType": "Static", mode": "Indexed", description": "Microsoft implements this System and Information Integrity control.

Managed Control 1303 - Identification And Authentication (Org. Users) | Local Access To Privileged Accounts, policyType": "Static", mode": "Indexed", description": "Microsoft implements this Identification and Authentication control.

Managed Control 1505 - Information Security Architecture, policyType": "Static", mode": "Indexed", description": "Microsoft implements this Planning control.

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Deploy prerequisites to audit Windows VMs configurations in "User Rights Assignment", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "User Rights Assignment". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol. 

"requiredProviders": ["Microsoft.GuestConfiguration"], "preview": true, "parameters": {
  "UsersOrGroupsThatMayAccessThisComputerFromTheNetwork": {
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This does not include Remote Desktop Connection."}, "defaultValue": "Administrators, Authenticated Users"},
  "UsersOrGroupsThatMayLogOnLocally": {
    "type": "String", "metadata": {"displayName": "[Preview]: Users or groups that may log on locally", "description": "Specifies which users or groups can interactively log on to the computer. Users who attempt to log on via Remote Desktop Connection or IIS also require this user right."}, "defaultValue": "Administrators"},
  "UsersOrGroupsThatMayLogOnThroughRemoteDesktopServices": {
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  "UsersAndGroupsThatAreDeniedAccessToThisComputerFromTheNetwork": {
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  "UsersOrGroupsThatMayManageAuditingAndSecurityLog": {
    "type": "String", "metadata": {"displayName": "[Preview]: Users or groups that may manage auditing and security log", "description": "Specifies which users and groups permitted to change the auditing options for files and directories and clear the Security Log."}, "defaultValue": "Administrators"},
  "UsersOrGroupsThatMayBackUpFilesAndDirectories": {
    "type": "String", "metadata": {"displayName": "[Preview]: Users or groups that may back up files and directories", "description": "Specifies which users or groups permitted to back up files and directories."}, "defaultValue": "Administrators"}
}
Users or groups that may back up files and directories","description":"Specifies users and groups allowed to circumvent file and directory permissions to back up the system."},"defaultValue":"Administrators, Backup Operators"},"UsersOrGroupsThatMayChangeTheSystemTime":{"type":"String","metadata":{"displayName":"[Preview]: Users or groups that may change the system time","description":"Specifies which users and groups are permitted to change the time and date on the internal clock of the computer."},"defaultValue":"Administrators, LOCAL SERVICE"},"UsersOrGroupsThatMayChangeTheTimeZone":{"type":"String","metadata":{"displayName":"[Preview]: Users or groups that may change the time zone","description":"Specifies which users and groups are permitted to change the time zone of the computer."},"defaultValue":"Administrators, LOCAL SERVICE"},"UsersOrGroupsThatMayCreateATokenObject":{"type":"String","metadata":{"displayName":"[Preview]: Users or groups that may create a token object","description":"Specifies which users and groups are permitted to create an access token, which may provide elevated rights to access sensitive data."},"defaultValue":"No One"},"UsersAndGroupsThatAreDeniedLoggingOnAsABatchJob":{"type":"String","metadata":{"displayName":"[Preview]: Users and groups that are denied logging on as a batch job","description":"Specifies which users and groups are explicitly not permitted to log on to the computer as a batch job (i.e. scheduled task)."},"defaultValue":"Guests"},"UsersAndGroupsThatAreDeniedLoggingOnAsAService":{"type":"String","metadata":{"displayName":"[Preview]: Users and groups that are denied logging on as a service","description":"Specifies which service accounts are explicitly not permitted to register a process as a service."},"defaultValue":"Guests"},"UsersAndGroupsThatAreDeniedLocalLogon":{"type":"String","metadata":{"displayName":"[Preview]: Users and groups that are denied local logon","description":"Specifies which users and groups are explicitly not permitted to log on to the computer."},"defaultValue":"Guests"},"UsersAndGroupsThatAreDeniedLogOnThroughRemoteDesktopServices":{"type":"String","metadata":{"displayName":"[Preview]: Users and groups that are denied log on through Remote Desktop Services","description":"Specifies which users and groups are explicitly not permitted to log on to the computer via Terminal Services/Remote Desktop Client."},"defaultValue":"Guests"},"UserAndGroupsThatMayForceShutdownFromARemoteSystem":{"type":"String","metadata":{"displayName":"[Preview]: User and groups that may force shutdown from a remote system","description":"Specifies which users and groups are permitted to shut down the computer from a remote location on the network."},"defaultValue":"Administrators"},"UsersAndGroupsThatMayRestoreFilesAndDirectories":{"type":"String","metadata":{"displayName":"[Preview]: Users and groups that may restore files and directories","description":"Specifies which users and groups are permitted to bypass file, directory, registry, and other persistent object permissions when restoring backed up files and directories."},"defaultValue":"Administrators, Backup
Users and groups that may shut down the system, "description": "Specifies which users and groups who are logged on locally to the computers in your environment are permitted to shut down the operating system with the Shut Down command.", "defaultValue": "Administrators", "UsersOrGroupsThatMayTakeOwnershipOfFilesOrOtherObjects": {
"type": "String", "metadata": {
"displayName": "[Preview]: Users or groups that may take ownership of files or other objects", "description": "Specifies which users and groups are permitted to take ownership of files, folders, registry keys, processes, or threads. This user right bypasses any permissions that are in place to protect objects to give ownership to the specified user.", "defaultValue": "Administrators"}, "policyRule": {
"if": {
"anyOf": {
"allOf": {
"field": "Microsoft.Compute/virtualMachines",
"anyOf": {
"field": "Microsoft.Compute/imagePublisher",
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"allOf": {
"field": "Microsoft.Compute/imagePublisher",
"equals": "MicrosoftWindowsServer",
"field": "Microsoft.Compute/imageSKU",
"notLike": "2008*"
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},
"allOf": {
"field": "Microsoft.Compute/imagePublisher",
"equals": "MicrosoftSQLServer",
"field": "Microsoft.Compute/imageOffer",
"notLike": "SQL2008*"
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},
"allOf": {
"field": "Microsoft.Compute/imagePublisher",
"equals": "microsoft-dsvm",
"field": "Microsoft.Compute/imageOffer",
"equals": "dsvm-windows"
},
"allOf": {
"field": "Microsoft.Compute/imagePublisher",
"equals": "microsoft-ads",
"field": "Microsoft.Compute/imageOffer",
"in": ["standard-data-science-vm", "windows-data-science-vm"]
}
},
"allOf": {
"field": "Microsoft.Compute/imagePublisher",
"equals": "batch",
"field": "Microsoft.Compute/imageOffer",
"equals": "rendering-windows2016"
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"allOf": {
"field": "Microsoft.Compute/imagePublisher",
"equals": "center-for-internet-security-inc",
"field": "Microsoft.Compute/imageOffer",
"like": "cis-windows-server-201*"
}
},
"allOf": {
"field": "Microsoft.Compute/imagePublisher",
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"field": "Microsoft.Compute/imageOffer",
"like": "bosh-windows-server*"
}
},
"allOf": {
"field": "Microsoft.Compute/imagePublisher",
"equals": "cloud-infrastructure-services",
"field": "Microsoft.Compute/imageOffer",
"like": "ad*"
}
},
"allOf": {
"anyOf": {
"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration",
"exists": true,
"field": "Microsoft.Compute/virtualMachine/storageProfile.osDisk.osType",
"like": "Windows*"
}
},
"allOf": {
"field": "Microsoft.Compute/imageSKU",
"exists": false,
"allOf": {
"field": "Microsoft.Compute/imageSKU",
"notLike": "2008*",
"field": "Microsoft.Compute/imageOffer",
"notLike": "SQL2008*"
}
}
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"allOf": {
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"equals": "Microsoft.HybridCompute/machines",
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"like": "windows*"
}
]
},
"then": {
"effect": "deployIfNotExists",
"details": {
"roleDefinitionIds": [
"/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"
],
"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments",
"name": "AzureBaseline_UserRightsAssignment",
"existenceCondition": {
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"equals": [base64(concat('"Access this computer from the network:ExpectedValue", ",",
parameters("UsersOrGroupsThatMayAccessThisComputerFromTheNetwork", ",",
"Allow log on locally:ExpectedValue", ",",
parameters("UsersOrGroupsThatMayLogOnLocally", ",",
"Allow log on through Remote Desktop Services:ExpectedValue", ",",
parameters("UsersOrGroupsThatMayLogOnThroughRemoteDesktopServices", ",",
"Deny access to this computer from the network:ExpectedValue", ",",
parameters("UsersAndGroupsThatAreDeniedAccessToThisComputerFromTheNetwork", ",",
"Manage auditing and security log:ExpectedValue", ",",
parameters("UsersOrGroupsThatMayManageAuditingAndSecurityLog", ",",
"Back up files and directories:ExpectedValue", ",")
]"},
"users": ["admin", "user1", "user2", "user3"]
}
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"", "Change the system time:ExpectedValue"", 
parameters("UsersOrGroupsThatMayChangeTheSystemTime"),
"", "Change the time zone:ExpectedValue"", ", parameters("UsersOrGroupsThatMayChangeTheTimeZone"),
"", "Create a token object:ExpectedValue"", ", parameters("UsersOrGroupsThatMayCreateATokenObject"),
"", "Deny log on as a batch job:ExpectedValue"", ", parameters("UsersAndGroupsThatAreDeniedLoggingOnAsABatchJob"),
"", "Deny log on as a service:ExpectedValue"", ", parameters("UsersAndGroupsThatAreDeniedLoggingOnAsAService"),
"", "Deny log on locally:ExpectedValue"", ", parameters("UsersAndGroupsThatAreDeniedLocalLogon"),
"", "Deny log on through Remote Desktop Services:ExpectedValue"", ", parameters("UsersAndGroupsThatAreDeniedLogOnThroughRemoteDesktopServices"),
"", "Force shutdown from a remote system:ExpectedValue"", ", parameters("UserAndGroupsThatMayForceShutdownFromARemoteSystem"),
"", "Restore files and directories:ExpectedValue"", ", parameters("UsersAndGroupsThatMayRestoreFilesAndDirectories"),
"", "Shut down the system:ExpectedValue"", ", parameters("UsersAndGroupsThatMayShutDownTheSystem"),
"", "Take ownership of files or other objects:ExpectedValue"", ", parameters("UsersOrGroupsThatMayTakeOwnershipOfFilesOrOtherObjects"))))}, "deployment":{"properties":{"mode":"incremental", "parameters":{"vmName":{"value":"[field('name')]"}, "location":{"value":"[field('location')]"}, "type":{"value":"[field('type')]"}, "configurationName":{"value":"AzureBaseline_UserRightsAssignment"}, "UsersOrGroupsThatMayAccessThisComputerFromTheNetwork":{"value":"[parameters('UsersOrGroupsThatMayAccessThisComputerFromTheNetwork')]"}, "UsersOrGroupsThatMayLogOnLocally":{"value":"[parameters('UsersOrGroupsThatMayLogOnLocally')]"}, "UsersOrGroupsThatMayLogOnThroughRemoteDesktopServices":{"value":"[parameters('UsersOrGroupsThatMayLogOnThroughRemoteDesktopServices')]"}, "UsersAndGroupsThatAreDeniedAccessToThisComputerFromTheNetwork":{"value":"[parameters('UsersAndGroupsThatAreDeniedAccessToThisComputerFromTheNetwork')]"}, "UsersAndGroupsThatMayManageAuditingAndSecurityLog":{"value":"[parameters('UsersOrGroupsThatMayManageAuditingAndSecurityLog')]"}, "UsersOrGroupsThatMayBackUpFilesAndDirectories" :{"value":"[parameters('UsersOrGroupsThatMayBackUpFilesAndDirectories')]"}, "UsersOrGroupsThatMayChangeTheSystemTime" :{"value":"[parameters('UsersOrGroupsThatMayChangeTheSystemTime')]"}, "UsersOrGroupsThatMayChangeTheTimeZone" :{"value":"[parameters('UsersOrGroupsThatMayChangeTheTimeZone')]"}, "UsersOrGroupsThatMayCreateATokenObject":{"value":"[parameters('UsersOrGroupsThatMayCreateATokenObject')]"}, "UsersAndGroupsThatAreDeniedLoggingOnAsABatchJob":{"value":"[parameters('UsersAndGroupsThatAreDeniedLoggingOnAsABatchJob')]"}, "UsersAndGroupsThatAreDeniedLoggingOnAsAService":{"value":"[parameters('UsersAndGroupsThatAreDeniedLoggingOnAsAService')]"}, "UsersAndGroupsThatAreDeniedLocalLogon":{"value":"[parameters('UsersAndGroupsThatAreDeniedLocalLogon')]"}, "UsersAndGroupsThatAreDeniedLogOnThroughRemoteDesktopServices":{"value":"[parameters('UsersAndGroupsThatAreDeniedLogOnThroughRemoteDesktopServices')]"}, "UserAndGroupsThatMayForceShutdownFromARemoteSystem":{"value":"[parameters('UserAndGroupsThatMayForceShutdownFromARemoteSystem')]"}, "UsersAndGroupsThatMayRestoreFilesAndDirectories":{"value":"[parameters('UsersAndGroupsThatMayRestoreFilesAndDirectories')]"}, "UsersAndGroupsThatMayShutDownTheSystem":{"value":"[parameters('UsersAndGroupsThatMayShutDownTheSystem')]"}, "UsersOrGroupsThatMayTakeOwnershipOfFilesOrOtherObjects":{"value":"[parameters('UsersOrGroupsThatMayTakeOwnershipOfFilesOrOtherObjects')]"}}}, "template":{"$schema":"https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"}, "location":{"type":"string"}, "configurationName":{"type":"string"}, "UsersOrGroupsThatMayAccessThisComputerFromTheNetwork":{"type":"string"}, "UsersOrGroupsThatMayLogOnLocally":{"type":"string"}, "UsersOrGroupsThatMayLogOnThroughRemoteDesktopServices":{"type":"string"}, "UsersAndGroupsThatMayShutDownTheSystem":{"type":"string"}, "UsersOrGroupsThatMayTakeOwnershipOfFilesOrOtherObjects":{"type":"string"}}}
{"properties": {"guestConfiguration": {"name": "[parameters('configurationName')]", "version": "1.*", "configurationParameter": {"name": "Access this computer from the network;ExpectedValue", "value": "[parameters('UsersOrGroupsThatMayAccessThisComputerFromTheNetwork')]" }, "name": "Allow log on locally;ExpectedValue", "value": "[parameters('UsersOrGroupsThatMayLogOnLocally')]" }, "name": "Allow log on through Remote Desktop Services;ExpectedValue", "value": "[parameters('UsersOrGroupsThatMayLogOnThroughRemoteDesktopServices')]" }, "name": "Deny access to this computer from the network;ExpectedValue", "value": "[parameters('UsersAndGroupsThatAreDeniedAccessToThisComputerFromTheNetwork')]" }, "name": "Manage auditing and security log;ExpectedValue", "value": "[parameters('UsersOrGroupsThatMayManageAuditingAndSecurityLog')]" }, "name": "Back up files and directories;ExpectedValue", "value": "[parameters('UsersOrGroupsThatMayBackUpFilesAndDirectories')]" }, "name": "Change the system time;ExpectedValue", "value": "[parameters('UsersOrGroupsThatMayChangeTheSystemTime')]" }, "name": "Change the system timezone;ExpectedValue", "value": "[parameters('UsersOrGroupsThatMayChangeTheTimeZone')]" }, "name": "Create a token object;ExpectedValue", "value": "[parameters('UsersOrGroupsThatMayCreateATokenObject')]" }, "name": "Deny log on as a batch job;ExpectedValue", "value": "[parameters('UsersAndGroupsThatAreDeniedLoggingOnAsABatchJob')]" }, "name": "Deny log on as a service;ExpectedValue", "value": "[parameters('UsersAndGroupsThatAreDeniedLoggingOnAsAService')]" }, "name": "Deny log on locally;ExpectedValue", "value": "[parameters('UsersAndGroupsThatAreDeniedLocalLogon')]" }
log on through Remote Desktop Services; ExpectedValue, value: parameters("UsersAndGroupsThatAreDeniedLogOnThroughRemoteDesktopServices"), name: "Force shutdown from a remote system; ExpectedValue, value: parameters("UserAndGroupsThatMayForceShutdownFromARemoteSystem"), name: "Restore files and directories; ExpectedValue, value: parameters("UsersAndGroupsThatMayRestoreFilesAndDirectories"), name: "Shut down the system; ExpectedValue, value: parameters("UsersAndGroupsThatMayShutDownTheSystem"), name: "Take ownership of files or other objects; ExpectedValue, value: parameters("UsersOrGroupsThatMayTakeOwnershipOfFileOrOtherObjects"), condition: equals(tolower(parameters("type")), toLower("Microsoft.Compute/virtualMachines")), apiVersion: "2018-11-20", type: "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", name: concat(parameters("vmName"), "(Microsoft.GuestConfiguration," configurationName), location: parameters("location"), properties: guestConfiguration: name: parameters("configurationName"), version: "1.0", configurationParameter: name: Access this computer from the network; ExpectedValue, value: parameters("UsersOrGroupsThatMayAccessThisComputerFromTheNetwork"), name: "Allow log on locally; ExpectedValue, value: parameters("UsersOrGroupsThatMayLogOnLocally"), name: "Allow log on through Remote Desktop Services; ExpectedValue, value: parameters("UsersOrGroupsThatMayLogOnThroughRemoteDesktopServices"), name: "Deny access to this computer from the network; ExpectedValue, value: parameters("UsersAndGroupsThatAreDeniedAccessToThisComputerFromTheNetwork"), name: "Manage auditing and security log; ExpectedValue, value: parameters("UsersOrGroupsThatMayManageAuditingAndSecurityLog"), name: "Back up files and directories; ExpectedValue, value: parameters("UsersOrGroupsThatMayBackUpFilesAndDirectories"), name: "Change the system time; ExpectedValue, value: parameters("UsersOrGroupsThatMayChangeTheSystemTime"), name: "Change the time zone; ExpectedValue, value: parameters("UsersOrGroupsThatMayChangeTheTimeZone"), name: "Create a token object; ExpectedValue, value: parameters("UsersOrGroupsThatMayCreateATokenObject"), name: "Deny log on as a batch job; ExpectedValue, value: parameters("UsersAndGroupsThatAreDeniedLoggingOnAsABatchJob"), name: "Deny log on as a
service:ExpectedValue","value":"[parameters("UsersAndGroupsThatAreDeniedLoggingOnAsAService"))],{"name":"Deny log on locally:ExpectedValue","value":"[parameters("UsersAndGroupsThatAreDeniedLocalLogon"))],{"name":"Deny log on through Remote Desktop Services:ExpectedValue","value":"[parameters("UsersAndGroupsThatAreDeniedLogOnThroughRemoteDesktopServices"))],{"name":"Force shutdown from a remote system:ExpectedValue","value":"[parameters("UserAndGroupsThatMayForceShutdownFromARemoteSystem"))],{"name":"Restore files and directories:ExpectedValue","value":"[parameters("UsersAndGroupsThatMayRestoreFilesAndDirectories"))],{"name":"Shut down the system:ExpectedValue","value":"[parameters("UsersAndGroupsThatMayShutDownTheSystem"))],{"name":"Take ownership of files or other objects:ExpectedValue","value":"[parameters("UsersOrGroupsThatMayTakeOwnershipOfFilesOrOtherObjects"))]")}},{"condition":{"equals(toLower(parameters("type")),
toLower("Microsoft.Compute/virtualMachines"))},"apiVersion":"2019-07-01","type":"Microsoft.Compute/virtualMachines","identity":{"type":"SystemAssigned"},"name":"[parameters("vmName"))],"location":"[parameters("location"))],{"condition":{"equals(toLower(parameters("type")),
Managed Control 1213 - Configuration Settings | Respond To Unauthorized Changes,

- **Policy Type**: Static, **Mode**: Indexed, **Description**: Microsoft implements this Configuration Management control.

- **Policy Rule**: If the field is not of the type `Microsoft.Resources/subscriptions` or `Microsoft.Resources/subscriptions/resourceGroups`, then set the effect to audit.

**Geo-redundant backup should be enabled for Azure Database for MySQL**,

- **Policy Type**: BuiltIn, **Mode**: Indexed, **Description**: This policy audits any Azure Database for MySQL with geo-redundant backup not enabled.

- **Policy Rule**: If the field is not of the type `Microsoft.DBforMySQL/servers` and the `Microsoft.DBforMySQL/servers/storageProfile.geoRedundantBackup` is not equal to `Enabled`, then set the effect to the `parameters('effect')` value.

**Managed Control 1168 - Continuous Monitoring | Independent Assessment**,

- **Policy Type**: Static, **Mode**: Indexed, **Description**: Microsoft implements this Security Assessment and Authorization control.

**Managed Control 1448 - Physical Access**,

- **Policy Type**: Static, **Mode**: Indexed, **Description**: Microsoft implements this Physical and Environmental Protection control.

**Managed Control 1452 - Physical Access Control**,

- **Policy Type**: Static, **Mode**: Indexed, **Description**: Microsoft implements this Physical and Environmental Protection control.
Managed Control 1262 - Contingency Plan

Testing", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {
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    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1262"
}, "policyRule": {
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            {
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            },
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                "value": "false",
                "equals": "true"
            }
        ]
    },
    "then": {
        "effect": "audit"
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    "type": "Microsoft.Authorization/policyDefinitions",
    "name": "82c76455-4d3f-4e09-a654-22e592107e74"
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"properties": {
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    "mode": "Indexed",
    "description": "Microsoft implements this Contingency Planning control",
    "metadata": {
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        "category": "Regulatory Compliance",
        "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1262"
    },
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                    "value": "false",
                    "equals": "true"
                }
            ]
        },
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        "policyType": "Static",
        "mode": "Indexed",
        "description": "Microsoft implements this Contingency Planning control",
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            "category": "Regulatory Compliance",
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        },
        "policyRule": {
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                        "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]
                    },
                    {
                        "value": "false",
                        "equals": "true"
                    }
                ]
            },
            "then": {
                "effect": "audit"
            },
            "id": "/providers/Microsoft.Authorization/policyDefinitions/82c76455-4d3f-4e09-a654-22e592107e74",
            "type": "Microsoft.Authorization/policyDefinitions",
            "name": "82c76455-4d3f-4e09-a654-22e592107e74"
        }
    }
}

Managed Control 1008 - Account Management",
"policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control",
"metadata": {
    "version": "1.0.0",
    "category": "Regulatory Compliance",
    "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1008"
}, "policyRule": {
    "if": {
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                "value": "false",
                "equals": "true"
            }
        ]
    },
    "then": {
        "effect": "audit"
    },
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    "type": "Microsoft.Authorization/policyDefinitions",
    "name": "831e510e-db41-4c72-888e-a0621ab62265"
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    "policyType": "Static",
    "mode": "Indexed",
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        "category": "Regulatory Compliance",
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    },
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                    "field": "type",
                    "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]
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                    "value": "false",
                    "equals": "true"
                }
            ]
        },
        "then": {
            "effect": "audit"
        },
        "id": "/providers/Microsoft.Authorization/policyDefinitions/831e510e-db41-4c72-888e-a0621ab62265",
        "type": "Microsoft.Authorization/policyDefinitions",
        "name": "831e510e-db41-4c72-888e-a0621ab62265"
    }
})

}
Open Source Used In SDWan

Your own key data protection should be enabled for MySQL servers.

This policy audits MySQL servers in your environment without bring your own key data protection enabled. For more details, visit https://aka.ms/mysqlbyok.

Managed Control 1382 - Incident Response Plan

Log Analytics agent should be installed on your Linux Azure Arc machines.

Managed Control 1098 - Security Training Records
Open Source Used In SD WAN 20.6.1

17875

- Implements this Awareness and Training control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1098" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/84363adb-dde3-411a-9fc1-36b56737f822", "type": "Microsoft.Authorization/policyDefinitions", "name": "84363adb-dde3-411a-9fc1-36b56737f822" }, {"properties": {"displayName": "Ensure that ".NET Framework" version is the latest, if used as a part of the Web app", "policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, newer versions are released for .NET Framework software either due to security flaws or to include additional functionality. Using the latest .NET framework version for web apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.", "metadata": {"version": "1.0.0", "category": "App Service" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" } }, "allowedValues": ["AuditIfNotExists", "Disabled" ], "defaultValue": "AuditIfNotExists" } }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites" }, {"field": "kind", "like": "app*" }]}, "then": {"effect": {"parameters": "[parameters('effect')]" }, "details": {"type": "Microsoft.Web/sites/config", "existenceCondition": {"field": "Microsoft.Web/sites/config/web.netFrameworkVersion", "in": ["v3.0", "v4.0"] } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/843664e0-7563-41ee-a9cb-7522c382d2c4", "type": "Microsoft.Authorization/policyDefinitions", "name": "843664e0-7563-41ee-a9cb-7522c382d2c4" }, {"properties": {"displayName": "Microsoft Managed Control 1119 - Audit Review, Analysis, And Reporting | Central Review And Analysis", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1119" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/845f6359-b764-4b40-b579-657afe23c44", "type": "Microsoft.Authorization/policyDefinitions", "name": "845f6359-b764-4b40-b579-657afe23c44" }, {"properties": {"displayName": "Microsoft Managed Control 1024 - Account Management | Account Monitoring / Atypical Usage", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1024" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/84914fb4-12da-4c53-a341-a9fd463bed10", "type": "Microsoft.Authorization/policyDefinitions", "name": "84914fb4-12da-4c53-a341-a9fd463bed10" }, {"properties": {"displayName": "Microsoft Managed Control 1307 - Identification And Authentication (Org. Users) | Net. Access To Non-Priv. Accts. - Replay", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1307" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/84e622e8-4bed-417c-84e6-
Deploy prerequisites to audit Windows VMs configurations in "Security Options - Microsoft Network Server". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Microsoft Network Server". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1180 - Baseline Configuration | Automation Support For Accuracy

Managed Control 1635 - Boundary Protection | Host-Based Protection

Show audit results from Windows VMs configurations in "Administrative Templates - Control Panel". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
prerequisites to audit Linux VMs that have the specified applications installed", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Linux virtual machines that have the specified applications installed. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.2.0", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"], "parameters": {"ApplicationName": {"type": "String", "metadata": {"displayName": "Application names", "description": "A semicolon-separated list of the names of the applications that should not be installed. e.g. "python; powershell""}}, "policyRule": {"if": {"anyOf": [{"allOf": [{"field": "Microsoft.Compute/virtualMachines", "anyOf": [{"field": "Microsoft.Compute/imagePublisher", "in": ["microsoft-aks", "AzureDatabricks", "qubole-inc", "datatax", "couchbase", "scalegrid", "checkpoint", "paloaltonetworks"], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "OpenLogic"}, {"field": "Microsoft.Compute/imageOffer", "like": "CentOS*"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "6*"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "RedHat"}, {"field": "Microsoft.Compute/imageOffer", "equals": "RHEL"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "6*"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "RedHat"}, {"field": "Microsoft.Compute/imageOffer", "equals": "RHEL"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "6*"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "RedHat"}, {"field": "Microsoft.Compute/imageOffer", "equals": "osa"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "debian"}, {"field": "Microsoft.Compute/imageOffer", "equals": "Debian"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "7*"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "Suse"}, {"field": "Microsoft.Compute/imageOffer", "like": "SLES*"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "11*"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "Canonical"}, {"field": "Microsoft.Compute/imageOffer", "equals": "UbuntuServer"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "12*"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-dsvm"}], {"field": "Microsoft.Compute/imageOffer", "in": ["linux-data-science-vm-ubuntu", "azureml"]}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "cloudera"}, {"field": "Microsoft.Compute/imageOffer", "equals": "cloudera-adataos"}], {"field": "Microsoft.Compute/imagePublisher", "equals": "cloudera-altus-adataos"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"}, {"field": "Microsoft.Compute/imageOffer", "like": "linux*"}], {"allOf": [{"anyOf": [{"field": "Microsoft.Compute/virtualMachines/osProfile.linuxConfiguration", "exists": true}, {"field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType", "like": "Linux*"}], {"anyOf": [{"field": "Microsoft.Compute/imagePublisher", "exists": false}, {"field": "Microsoft.Compute/imagePublisher", "notIn": ["OpenLogic", "RedHat", "credativ", "Suse", "Canonical", "microsoft-dsvm", "cloudera", "microsoft-ads"]}]})}]}, {"allOf": [{"field": "type", "equals": "Microsoft.HybridCompute/machines"}, {"field": "Microsoft.HybridCompute/imageOffer", "like": "linux*"}]}, "then": {"effect": "deployIfNotExists", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"], "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "not_installed_application_linux", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash", "equals": "[base64(concat([ChefInSpec|NotInstalledApplicationLinuxResource1;AttributesYmlContent " =", concat("packages: ", replace(parameters("ApplicationName"), ",", ","))])]), deployment": {"properties": {"mode": "incremental", "parameters": {"vmName": {"value": ["field(name)"], "location": ["field(location)"], "type": ["field(type)"], "configurationName": ["value": "not_installed_application_linux"], "ApplicationName": ["value": [parameters("ApplicationName")]]}, "template": ["Sche"}}}
that "Java version" is the latest, if used as a part of the 
app", "policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, 
newer versions are released for Java either due to security flaws or to include 
additional functionality. Using the latest Python version for Api apps is 
recommended in order to take advantage of security fixes, if any, and/or new 
functionalties of the latest version. 

"JavaLatestVersion": 
"parameters": 

Java version", "description": "Latest supported Java version for App Services"}, 
"defaultValue": "11"}], "policyRule": 
"if": 
{"allOf": [{ 
"field": "Microsoft.Web/sites/config/web.linuxFxVersion", 

"field": "Microsoft.Web/sites/config/web.javaVersion", 

"like": 
[concat(parameters("JavaLatestVersion"))]
}, 

"field": "Microsoft.Web/sites/config/web.javaVersion", 

"like": 
[concat(parameters("JavaLatestVersion"))]
}, 
"details": 
"Microsoft.Web/sites/config/web.javaVersion", 

"like": 
[concat(parameters("JavaLatestVersion"))]
], 
"parameters": [ 

"mode": "Indexed", 

"description": "This policy denies the network interfaces which enabled IP forwarding. The setting 
of IP forwarding disables Azure's check of the source and destination for 
a network interface. This should be reviewed by the network security 
team.

"parameters": 

Managed Control 1215 - Least Functionality", 

"policyRule": 

"Microsoft 

servers should be configured with auditing retention days greater than 90 
days."}, 

"policyType": "BuiltIn", "mode": "Indexed", "description": "Audit SQL servers 
configured with an auditing retention period of less than 90
Managed Control 1411 - Nonlocal Maintenance", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1411" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": "audit" }} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/89099bee-89e0-4b26-a5f4-165451757743", "type": "Microsoft.Authorization/policyDefinitions", "name": "89099bee-89e0-4b26-a5f4-165451757743" }, {"properties": {"displayName": "Microsoft Managed Control 1411 - Nonlocal Maintenance", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1411" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": "audit" }} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/89099bee-89e0-4b26-a5f4-165451757743", "type": "Microsoft.Authorization/policyDefinitions", "name": "89099bee-89e0-4b26-a5f4-165451757743" }, {"properties": {"displayName": "Microsoft Managed Control 1411 - Nonlocal Maintenance", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1411" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": "audit" }} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/89099bee-89e0-4b26-a5f4-165451757743", "type": "Microsoft.Authorization/policyDefinitions", "name": "89099bee-89e0-4b26-a5f4-165451757743" }, {"properties": {"displayName": "Microsoft Managed Control 1411 - Nonlocal Maintenance", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1411" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true }], "then": {"effect": "audit" }} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/89099bee-89e0-4b26-a5f4-165451757743", "type": "Microsoft.Authorization/policyDefinitions", "name": "89099bee-89e0-4b26-a5f4-165451757743" },
inc"],{"field":"Microsoft.Compute/imageOffer","like":"cis-windows-server-201*"}],{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"pivotal"},{"field":"Microsoft.Compute/imageOffer","like":"bosh-windows-server*"}],{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructure-services"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}],{"allOf": [{"anyOf": [{"field": "Microsoft.Compute/imageSKU","notLike":"2008*"}, {"field": "Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]}]},{"allOf":[{"field": "type","equals":"Microsoft.HybridCompute/machines"},{"field": "Microsoft.HybridCompute/imageOffer","like":"windows*"}]}], then: {"effect": "auditIfNotExists", "details": {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments","name": "AzureBaseline_SecurityOptionsSettings","existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals": "Compliant"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8a39d1f1-5513-4628-b261-f469a5a3341b","type": "Microsoft.Authorization/policyDefinitions","name": "8a39d1f1-5513-4628-b261-f469a5a3341b"}, {"properties": {"displayName": "Show audit results from Windows VMs with a pending reboot","policyType": "BuiltIn","mode": "All","description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with a pending reboot. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata": {"version": "1.0.0","category": "Guest Configuration"},"policyRule": {"if": {"anyOf": [{"allOf": [{"field": "Microsoft.Compute/imagePublisher","in": ["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"],"allOf": [{"field": "Microsoft.Compute/imagePublisher","equals": "MicrosoftWindowsServer"},{"field": "Microsoft.Compute/imageSKU","notLike": "2008*"}],[{"field": "Microsoft.Compute/imagePublisher","equals": "MicrosoftSQLServer"},{"field": "Microsoft.Compute/imageOffer","notLike": "SQL2008*"}]},{"allOf": [{"field": "Microsoft.HybridCompute/imageOffer","like":"windows*"}]}]}], then: {"effect": "auditIfNotExists", "details": {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments","name": "WindowsPendingReboot","existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals": "Compliant"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8a39d1f1-5513-4628-b261-f469a5a3341b","type": "Microsoft.Authorization/policyDefinitions","name": "8a39d1f1-5513-4628-b261-f469a5a3341b"}, {"properties": {"displayName": "Show audit results from Windows VMs with a pending reboot","policyType": "BuiltIn","mode": "All","description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with a pending reboot. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata": {"version": "1.0.0","category": "Guest Configuration"},"policyRule": {"if": {"anyOf": [{"allOf": [{"field": "Microsoft.Compute/imagePublisher","in": ["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"],"allOf": [{"field": "Microsoft.Compute/imagePublisher","equals": "MicrosoftWindowsServer"},{"field": "Microsoft.Compute/imageSKU","notLike": "2008*"}],[{"field": "Microsoft.Compute/imagePublisher","equals": "MicrosoftSQLServer"},{"field": "Microsoft.Compute/imageOffer","notLike": "SQL2008*"}]},{"allOf": [{"field": "Microsoft.HybridCompute/imageOffer","like":"windows*"}]}]}], then: {"effect": "auditIfNotExists", "details": {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments","name": "WindowsPendingReboot","existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals": "Compliant"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8b0de57a-f511-4d45-a277-
Managed Control 1534 - Personnel

Sanctions", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1534"}, "policyRule": "{"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8b2b263e-cd05-4488-bcbf-4debec7a17d9"}

Managed Control 1170 - Penetration Testing", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1170"}, "policyRule": "{"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8b78b9b3-ee3c-48e0-a243-ed6dba5b7a12"}


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or disable the execution of the policy")["allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"]}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "+api"}]}, "then": {"effect": "parameters\("effect\)\", "details": {"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"field": "Microsoft.Web/sites/config/minTlsVersion", "equals": "1.2"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8cb6aa8b-9e41-4f4e-aa25-089a7ac2581e", "type": "Microsoft.Authorization/policyDefinitions", "name": "/providers/Microsoft.Authorization/policyDefinitions/8cb6aa8b-9e41-4f4e-aa25-089a7ac2581e"], {"properties": {"displayName": "Microsoft Managed Control 1316 - Identifier Management | Identify User Status", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1316"}}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8ce14753-66e5-465d-9841-26ef55c09e0d", "type": "Microsoft.Authorization/policyDefinitions", "name": "8ce14753-66e5-465d-9841-26ef55c09e0d"}, {"properties": {"displayName": "Require a tag and its value on resource groups", "policyType": "BuiltIn", "mode": "All", "description": "Enforces a required tag and its value on resource groups", "metadata": {"version": "1.0.0", "category": "Tags"}, "parameters": {"tagName": {"type": "String", "metadata": {"displayName": "Tag Name", "description": "Name of the tag, such as "environment""}}, "tagValue": {"type": "String", "metadata": {"displayName": "Tag Value", "description": "Value of the tag, such as "production""}}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Resources/subscriptions/resourceGroups"}], "field": ["concat\("tags\[\", parameters\("tagName\), "]\")\]", "notEquals": ["parameters\("tagValue\)\"]}], "then": {"effect": "deny"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8ce3da23-7156-49e4-b145-24f95f9dc8b6", "type": "Microsoft.Authorization/policyDefinitions", "name": "8ce3da23-7156-49e4-b145-24f95f9dc8b6"}, {"properties": {"displayName": "Microsoft Managed Control 1324 - Authenticator Management", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1324"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8cfe42b3-7f77-497e-ac20-0752f2ff6e0e", "type": "Microsoft.Authorization/policyDefinitions", "name": "/providers/Microsoft.Authorization/policyDefinitions/8cfe42b3-7f77-497e-ac20-0752f2ff6e0e"}, {"properties": {"displayName": "Microsoft Managed Control 1225 - Information System Component Inventory | Automated Maintenance", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1225"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/8d096f0-4510-4486-8b4d-
Deploy prerequisites to audit Windows VMs configurations in "System Audit Policies - Object Access". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Object Access". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
meters("vmName"), "Microsoft.GuestConfiguration", parameters("configurationName")), "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": "1.0", "configurationParameter": {"name": "Audit Detailed File Share;ExpectedValue", "value": [parameters("AuditDetailedFileShare")]}, "name": "Audit File Share;ExpectedValue", "value": [parameters("AuditFileShare")], "name": "Audit File System;ExpectedValue", "value": [parameters("AuditFileSystem")]}}, ["condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))]], ["apiVersion": "2018-11-20"], ["type": "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", "name": [concat(parameters("vmName"), "/Microsoft.GuestConfiguration", parameters("configurationName")), "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": "1.0", "configurationParameter": {"name": "Audit Detailed File Share;ExpectedValue", "value": [parameters("AuditDetailedFileShare")]}, "name": "Audit File Share;ExpectedValue", "value": [parameters("AuditFileShare")], "name": "Audit File System;ExpectedValue", "value": [parameters("AuditFileSystem")]}}, ["condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))]], ["apiVersion": "2019-07-01"], ["type": "Microsoft.Compute/virtualMachines", "identity": {"type": "SystemAssigned"}, "name": [parameters("vmName")], "location": [parameters("location")], ["condition": [equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines"))]], ["apiVersion": "2015-05-01-preview"], ["name": [concat(parameters("vmName"), "/Microsoft.GuestConfiguration/providers/guestConfigurationAssignments/", parameters("configurationName"))]]], ["id": "/providers/Microsoft.Authorization/policyDefinitions/8e170edb-e0f5-497a-bb36-48b3280cc66a", "type": "Microsoft.Authorization/policyDefinitions", "name": "8e170edb-e0f5-497a-bb36-48b3280cc66a"], ["properties": {"displayName": "Managed Control 1278 - Alternate Processing Site | Preparation For Use"}, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", ["metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1278"}], "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true}], "then": {"effect": "audit"}}}], ["id": "/providers/Microsoft.Authorization/policyDefinitions/8e5ef485-9e16-4c53-a475-fbb8107eac59", "type": "Microsoft.Authorization/policyDefinitions", "name": "8e5ef485-9e16-4c53-a475-fbb8107eac59"], ["properties": {"displayName": "Enable Security Center’s auto provisioning of the Log Analytics agent on your subscriptions with custom workspace.", "policyType": "BuiltIn", "mode": "All", "description": "Allow Security Center to auto provision the Log Analytics agent on your subscriptions to monitor and collect security data using a custom workspace.", ["metadata": {"version": "1.0.0", "category": "Security Center"}], ["parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable"}}}]]}}}},
or disable the execution of the policy

```
"allowedValues": ["DeployIfNotExists", "Disabled"],
"defaultValue": "DeployIfNotExists",
"logAnalytics": {
  "type": "String",
  "metadata": {
    "displayName": "Log Analytics workspace",
    "description": "Auto provision the Log Analytics agent on your subscriptions to monitor and collect security data using a custom workspace.",
    "strongType": "omsWorkspace"
  }
},
"policyRule": {
  "if": {
    "field": "type",
    "equals": "Microsoft.Resources/subscriptions",
    "then": {
      "effect": "[parameters("effect")]",
      "details": {
        "type": "Microsoft.Security/autoProvisioningSettings",
        "deploymentScope": "Subscription",
        "roleDefinitionIds": [
          "/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c",
          "/providers/Microsoft.Authorization/policyDefinitions/8e7da0a5-0a0e-4bbc-bfc0-7773c018b616",
          "/providers/Microsoft.Authorization/policyDefinitions/8f5ad423-50d6-4617-b058-69908f5586c9"
        ],
        "template": {
          "contentVersion": "1.0.0.0",
          "parameters": {
            "logAnalytics": {
              "type": "string"
            }
          },
          "variables": {
            "type": "Microsoft.Security/autoProvisioningSettings",
            "name": "default",
            "apiVersion": "2017-08-01-preview",
            "properties": {
              "autoProvision": "On"
            }
          },
          "resources": [
            {
              "type": "Microsoft.Security/autoProvisioningSettings",
              "name": "default",
              "apiVersion": "2017-08-01-preview",
              "name": "default",
              "properties": {
                "workspaceId": "[parameters("logAnalytics")]",
                "scope": "[subscription().id]"
              }
            },
            {
              "type": "Microsoft.Security/workspaceSettings",
              "name": "default",
              "apiVersion": "2017-08-01-preview",
              "name": "default",
              "properties": {
                "workspaceId": "[parameters("logAnalytics")]",
                "scope": "[subscription().id]"
              }
            }
          ]
        }
      }
    }
  }
}
```

---

**Managed Control 1517 - Personnel Termination**

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Personnel Security control

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**Managed Control 1668 - Flaw Remediation**

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this System and Information Integrity control

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**Managed Control 1013 - Account Management | Automated System Account Management**

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Access Control control
null
Deploy prerequisites to audit Windows VMs configurations in "Windows Firewall Properties", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Windows Firewall Properties". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Windows Firewall (Domain): Use profile settings, "description": "Specifies..."
whether Windows Firewall with Advanced Security uses the settings for the Domain profile to filter network traffic. If you select Off, Windows Firewall with Advanced Security will not use any of the firewall rules or connection security rules for this profile.

"WindowsFirewallDomainBehaviorForOutboundConnections": {
  "type": "String",
  "metadata": {
    "displayName": "[Preview]: Windows Firewall (Domain): Behavior for outbound connections",
    "description": "Specifies the behavior for outbound connections for the Domain profile that do not match an outbound firewall rule. The default value of 0 means to allow connections, and a value of 1 means to block connections."
  },
  "defaultValue": "0"
},

"WindowsFirewallDomainApplyLocalConnectionSecurityRules": {
  "type": "String",
  "metadata": {
    "displayName": "[Preview]: Windows Firewall (Domain): Apply local connection security rules",
    "description": "Specifies whether local administrators are allowed to create connection security rules that apply together with connection security rules configured by Group Policy for the Domain profile."
  },
  "defaultValue": "1"
},

"WindowsFirewallDomainDisplayNotifications": {
  "type": "String",
  "metadata": {
    "displayName": "[Preview]: Windows Firewall (Domain): Display notifications",
    "description": "Specifies whether Windows Firewall with Advanced Security displays notifications to the user when a program is blocked from receiving inbound connections, for the Domain profile."
  },
  "defaultValue": "1"
},

"WindowsFirewallPrivateUseProfileSettings": {
  "type": "String",
  "metadata": {
    "displayName": "[Preview]: Windows Firewall (Private): Use profile settings",
    "description": "Specifies whether Windows Firewall with Advanced Security uses the settings for the Private profile to filter network traffic. If you select Off, Windows Firewall with Advanced Security will not use any of the firewall rules or connection security rules for this profile."
  },
  "defaultValue": "1"
},

"WindowsFirewallPrivateBehaviorForOutboundConnections": {
  "type": "String",
  "metadata": {
    "displayName": "[Preview]: Windows Firewall (Private): Behavior for outbound connections",
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  },
  "defaultValue": "0"
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"WindowsFirewallPrivateApplyLocalConnectionSecurityRules": {
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  },
  "defaultValue": "1"
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"WindowsFirewallPrivateDisplayNotifications": {
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    "description": "Specifies whether Windows Firewall with Advanced Security displays notifications to the user when a program is blocked from receiving inbound connections, for the Private profile."
  },
  "defaultValue": "1"}
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whether Windows Firewall with Advanced Security permits the local computer
to receive unicast responses to its outgoing multicast or broadcast messages;
for the Private
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Windows Firewall: Public: Allow unicast response",
"description":"Specifies whether Windows Firewall with Advanced Security permits the local computer
to receive unicast responses to its outgoing multicast or broadcast messages;
for the Public
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Open Source Used In SDWan 20.6.1 17900


This policy creates a Guest Configuration assignment to audit Windows virtual machines that do not have the specified Windows PowerShell modules installed. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

prerequisites to audit Windows VMs that do not have the specified Windows PowerShell modules installed.

This policy creates a Guest Configuration assignment to audit Windows virtual machines that do not have the specified Windows PowerShell modules installed. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

A semicolon-separated list of the names of the PowerShell modules that should be installed. You may also specify a specific version of a module that should be installed by including a comma after the module name, followed by the desired version. e.g. PSDscResources; SqlServerDsc, 12.0.0.0; ComputerManagementDsc, 6.1.0.0
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"policyType": "BuiltIn", 
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{ "allOf": [{ "field": "Microsoft.Compute/imageSKU", notLike": "2008*" }], 
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Open Source Used In SDWAN

Managed Control 1069 - Wireless Access | Authentication And Encryption

Managed Control 1370 - Incident Monitoring | Automated Tracking / Data Collection

Deploy Dependency agent to Windows Azure Arc machines

MFA
Multi-Factor Authentication (MFA) should be enabled for all subscription accounts with write privileges to prevent a breach of accounts or resources.

Audit if Not Exists

Microsoft implements this Contingency Planning control. This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that contain certificates expiring within the specified number of days.

https://aka.ms/gcpol
Deploy prerequisites to audit Windows VMs in which the Administrators group does not contain all of the specified members.

This policy creates a Guest Configuration assignment to audit Windows virtual machines in which the Administrators group does not contain all of the specified members.

It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

**Display Name:** Deploy prerequisites to audit Windows VMs in which the Administrators group does not contain all of the specified members

**Policy Type:** BuiltIn

**Mode:** Indexed

**Description:** This policy creates a Guest Configuration assignment to audit Windows virtual machines in which the Administrators group does not contain all of the specified members.

It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

**Metadata:**
- **Version:** 1.1.0
- **Category:** Guest Configuration
- **Required Providers:** [Microsoft.GuestConfiguration]

**Parameters:**
- **MembersToInclude:**
  - **Type:** String
  - **Description:** A semicolon-separated list of members that should be included in the Administrators local group. Ex: Administrator; myUser1; myUser2

**Policy Rule:**
- **If:**
  - **Any Of:**
    - **All Of:**
      - **Field:** type
        - **Equals:** Microsoft.Compute/virtualMachines
      - **Any Of:**
        - **Field:** Microsoft.Compute/imagePublisher
          - **In:** [esri, incredibuild, MicrosoftDynamicsAX, MicrosoftSharepoint, MicrosoftWindowsDesktop, MicrosoftWindowsServerHPCPack]
        - **All Of:**
          - **Field:** Microsoft.Compute/imagePublisher
            - **Equals:** MicrosoftWindowsServer
          - **Field:** Microsoft.Compute/imageOffer
            - **Not Like:** SQL2008*
        - **All Of:**
          - **Field:** Microsoft.Compute/imagePublisher
            - **Equals:** MicrosoftSQLServer
          - **Field:** Microsoft.Compute/imageOffer
            - **Not Like:** SQL2008*
        - **All Of:**
          - **Field:** Microsoft.Compute/imagePublisher
            - **Equals:** microsoft-dsvm
          - **Field:** Microsoft.Compute/imageOffer
            - **Equals:** dsvm-windows*
        - **All Of:**
          - **Field:** Microsoft.Compute/imagePublisher
            - **Equals:** microsoft-ads
          - **Field:** Microsoft.Compute/imageOffer
            - **In:** [standard-data-science-vm, windows-data-science-vm]
        - **All Of:**
          - **Field:** Microsoft.Compute/imagePublisher
            - **Equals:** batch
          - **Field:** Microsoft.Compute/imageOffer
            - **Rendering-windows2016*
        - **All Of:**
          - **Field:** Microsoft.Compute/imagePublisher
            - **Equals:** center-for-internet-security
          - **Field:** Microsoft.Compute/imageOffer
            - **Like:** cis-windows-server-201*
        - **All Of:**
          - **Field:** Microsoft.Compute/imagePublisher
            - **Equals:** pivotal
          - **Field:** Microsoft.Compute/imageOffer
            - **Like:** bosh-windows-server*
        - **All Of:**
          - **Field:** Microsoft.Compute/imagePublisher
            - **Equals:** cloud-infrastructure-services
          - **Field:** Microsoft.Compute/imageOffer
            - **Like:** ad*
        - **All Of:**
          - **Field:** Microsoft.Compute/imagePublisher
            - **Exists:** true
          - **Field:** Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration
            - **Exists:** true
          - **Field:** Microsoft.Compute/virtualMachines/osDisk.osType
            - **Like:** Windows*
        - **Any Of:**
          - **Field:** Microsoft.Compute/imageSKU
            - **Exists:** false
          - **All Of:**
            - **Field:** Microsoft.Compute/imageSKU
              - **Not Like:** SQL2008*
        - **Field:** Microsoft.Compute/imageOffer
          - **Not Like:** SQL2008*
        - **All Of:**
          - **Field:** type
            - **Equals:** Microsoft.HybridCompute/machines
          - **Field:** Microsoft.HybridCompute/imageOffer
            - **Like:** windows*
        - **Effect:** deployIfNotExists
        - **Details:**
          - **RoleDefinitionIds:** /providers/microsoft.authorization/roleDefinitions/b24988aca-6180-42a0-ab88-20f7382dd24c
          - **Type:** Microsoft.GuestConfiguration/guestConfigurationAssignments
          - **Name:** AdministratorsGroupMembersToInclude
          - **ExistenceCondition:**
            - **Field:** Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus
              - **Equals:** Compliant

**ID:** /providers/Microsoft.Authorization/policyDefinitions/9328f27e-611e-44a7-a244-39109d7d35ab

**Type:** Microsoft.Authorization/policyDefinitions

**Name:** 9328f27e-611e-44a7-a244-39109d7d35ab
Managed Control 1674 - Flaw Remediation | Time To Remediate Flaws / Benchmarks
For Corrective Actions","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1674"},"policyRule 
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Managed Control 1297 - Information System Recovery And Reconstitution | Restore Within Time Period","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Contingency Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1297"},"policyRule 
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Managed Control 1284 - Telecommunications Services | Provider Contingency Plan","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Contingency Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1284"},"policyRule 
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Managed Control 1379 - Incident Response Plan","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1379"},"policyRule 
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Managed Control 1371 - Incident Reporting","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1371"},"policyRule 
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Managed Control 1717 - Software, Firmware, And Information Integrity | Binary
Or Machine Executable Code"; "policyType"; "Static"; "mode"; "Indexed"; "description"; "Microsoft implements this System and Information Integrity control"; "metadata"; {"version"; "1.0.0"; "category"; "Regulatory Compliance"; "additionalMetadataId"; "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1717"}, "policyRule ": {
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"properties": {
"displayName": "[Preview]: Show audit results from Windows VMs configurations in "Administrative Templates - MSS (Legacy)"", "policyType": "BuiltIn", "mode": "All", "description": "This
policy should only be used along with its corresponding deploy policy in an
initiative. This definition allows Azure Policy to process the results of
auditing Windows virtual machines with non-compliant settings in Group Policy
category: "Administrative Templates - MSS (Legacy)". For more information
on Guest Configuration policies, please visit https://aka.ms/gcpol.

- Policy Change''. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.1.0-preview","category":"Guest Configuration","requiredProviders":[/"Microsoft.GuestConfiguration"],"preview":true},"parameters":{"AuditAuthenticationPolicyChange":{"type":"String","metadata":{"displayName":"[Preview]: Audit Authentication Policy Change","description":"Specifies whether audit events are generated when changes are made to authentication policy. This setting is useful for tracking changes in domain-level and forest-level trust and privileges that are granted to user accounts or groups."},"allowedValues":[/"No Auditing","Success","Failure","Success and Failure"],"defaultValue":"Success"},"AuditAuthorizationPolicyChange":{"type":"String","metadata":{"displayName":"[Preview]: Audit Authorization Policy Change","description":"Specifies whether audit events are generated for assignment and removal of user rights in user right policies, changes in security token object permission, resource attributes changes and Central Access Policy changes for file system objects."},"allowedValues":[/"No Auditing","Success","Failure","Success and Failure"],"defaultValue":"No Auditing"},"policyRule":{"if":{"anyOf":[/"allOf":[/"field":"type","equals":"Microsoft.Compute/virtualMachines"],/"anyOf":[/"field":"Microsoft.Compute/imagePublisher","equals":"esri"],/"anyOf":[/"field":"Microsoft.Compute/imagePublisher","equals":"incredibuild"],/"anyOf":[/"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftDynamicsAX"],/"anyOf":[/"field":"Microsoft.Sharepoint","equals":"MicrosoftVisualStudio"],/"anyOf":[/"field":"Microsoft.WindowsDesktop","equals":"MicrosoftWindowsServerHPCPack"],/"allOf":[/"field":"Microsoft.Compute/imagePublisher","equals":"Microsoft.WindowsServer"],/"field":"Microsoft.Compute/imageSKU","notLike":"2008*"],/"allOf":[/"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftSQLServer"],/"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"],/"allOf":[/"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-dsvm"],/"field":"Microsoft.Compute/imageOffer","equals":"dsvm-windows"],/"allOf":[/"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-ads"],/"field":"Microsoft.Compute/imageOffer","in":[/"standard-data-science-vm","windows-data-science-vm"],/"allOf":[/"field":"Microsoft.Compute/imagePublisher","equals":"batch"],/"field":"Microsoft.Compute/imageOffer","equals":"rendering-windows2016"],/"allOf":[/"field":"Microsoft.Compute/imagePublisher","equals":/"center-for-internet-security"],/"field":"Microsoft.Compute/imageOffer","like":/"eis-windows-server-201*"],/"allOf":[/"field":"Microsoft.Compute/imagePublisher","equals":/"pivotal"],/"field":"Microsoft.Compute/imageOffer","like":/"bosh-windows-server*"],/"allOf":[/"field":"Microsoft.Compute/imagePublisher","equals":/"cloud-infrastructure-services"],/"field":"Microsoft.Compute/imageOffer","like":/"ad*"],/"allOf":[/"anyOf":[/"field":"Microsoft.Compute/imageSKU","notLike":"2008*"],/"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"],/"allOf":[/"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash","equals":/"base64(concat('Audit Authentication Policy Change;ExpectedValue','=','Audit Authorization Policy Change;ExpectedValue','=')"},"parameters":{"AuditAuthenticationPolicyChange":"="},"AuditAuthorizationPolicy Change":"="}
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A value of 0 allows simultaneous connections, and a value of 1 blocks them."},"defaultValue":"1"},"TurnOffMulticastNameResolution":{"type":"String","metadata":{"displayName":"[Preview]: Turn off multicast name resolution","description":"Specifies whether LLNMR, a secondary name resolution protocol that transmits using multicast over a local subnet link on a single subnet, is enabled."},"defaultValue":"1"},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},"field":"Microsoft.Compute/imageSKU","notLike":"2008*"}]}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftSQLServer"},"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-dsvm"},"field":"Microsoft.Compute/imageOffer","equals":"dsvm-windows"}]}],"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoft-ads"},"field":"Microsoft.Compute/imageOffer","in":["standard-data-science-vm","windows-data-science-vm"]}],"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"batch"},"field":"Microsoft.Compute/imageOffer","equals":"rendering-windows2016"}],"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-security-inc"},"field":"Microsoft.Compute/imageOffer","like":"cis-windows-server-201*"}],"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"pivotal"},"field":"Microsoft.Compute/imageOffer","like":"bosh-windows-server*"}],"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructure-services"},"field":"Microsoft.Compute/imageOffer","like":"ad*"}],"allOf":[{"anyOf":[{"field":"Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration","exists":"true"},"field":"Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType","like":"Windows*"}],"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists":"false"},"field":"Microsoft.Compute/imageSKU","notLike":"2008*"],"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}],"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machines"},"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}],"then":{"effect":"deployIfNotExists","details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f73822d24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"AzureBaseline_AdministrativeTemplatesNetwork","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash","equals":"[base64(concat("Enable insecure guest logons;ExpectedValue","="),parameters("EnableInsecureGuestLogons"),",","Minimize the number of simultaneous connections to the Internet or a Windows Domain;ExpectedValue","="),parameters("AllowSimultaneousConnectionsToTheInternetOrAWindowsDomain"),",","Turn off multicast name resolution;ExpectedValue","="),parameters("TurnOffMulticastNameResolution"))],"deployment":{"properties":{"mode":"incremental","parameters":[{"vmName":{"value":"[field(name)]"},"location":{"value":"[field(location)]"}}]}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}Open Source Used In SDWan 20.6.1 17917
Managed Control 1076 - Use Of External Information Systems

- **Policy Type**: Static, mode: Indexed, description: "Microsoft implements this Access Control control", metadata: "version": 1.0.0, category: "Regulatory Compliance", additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1076"

- **Policy Rule**: "if": "allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true}], "then": {"effect": "audit"}

Managed Control 1102 - Audit Events

- **Policy Type**: BuiltIn, mode: Indexed, description: "Periodically, newer versions are released for HTTP either due to security flaws or to include additional functionality. Using the latest HTTP version for web apps to take advantage of security fixes, if any, and/or new functionalities of the newer version.", metadata: "version": 1.0.0, category: "App Service"

- **Policy Rule**: "if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}], "field": "kind", "like": "*api"}], "then": {"effect": "parameters(effect)"}, "details": {"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"field": "Microsoft.Web/sites/config/web.http20Enabled", "equals": true}]

Managed Control 1300 - Identification And Authentication (Organizational Users)

- **Policy Type**: Static, mode: Indexed, description: "Microsoft implements this Identification and Authentication control", metadata: "version": 1.0.0, category: "Regulatory Compliance", additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1300"

- **Policy Rule**: "if": "allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true}], "then": {"effect": "audit"}

Managed Control 1036 - Least Privilege | Non-Privileged Access For Nonsecurity Functions

- **Policy Type**: Static, mode: Indexed, description: "Microsoft implements this Access Control control", metadata: "version": 1.0.0, category: "Regulatory Compliance", additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1036"

Managed Control 1021 - Account Management | Restrictions On Use Of Shared

Diagnostic Settings for Azure SQL Database to Event
Hub, "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploys the diagnostic settings for Azure SQL Database to stream to a regional Event Hub on any Azure SQL Database which is missing this diagnostic settings is created or updated.", "metadata": {"version": "1.0.0", "category": "SQL"}, "parameters": {"profileName": {"type": "String", "metadata": {"displayName": "Profile name", "description": "The diagnostic settings profile name"}}, "defaultPolicy": "setbypolicy"}, "eventHubRuleId": {"type": "String", "metadata": {"displayName": "Event Hub Authorization Rule Id", "description": "The Event Hub authorization rule for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level, e.g. /subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/namespaces/{Event Hub namespace}/authorizationrules/{authorization rule}"}, "strongType": "Microsoft.EventHub/Namespace/AuthorizationRules", "assignPermissions": true}, "metricsEnabled": {"type": "String", "metadata": {"displayName": "Enable metrics", "description": "Whether to enable metrics stream to the Event Hub - True or False"}, "allowedValues": ["True", "False"], "defaultValue": "False"}, "logsEnabled": {"type": "String", "metadata": {"displayName": "Enable logs", "description": "Whether to enable logs stream to the Event Hub - True or False"}, "allowedValues": ["True", "False"], "defaultValue": "False"}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Sql/servers/databases"}, "then": {"effect": "DeployIfNotExists", "details": {"type": "Microsoft.Insights/diagnosticssettings"}}}
Settings","name": PARAMETERS("profileName"),"existenceCondition": {"allOf": [{"field": "Microsoft.Insights/diagnosticSettings/logs.enabled", "equals": PARAMETERS("logsEnabled")}],
"field": "Microsoft.Insights/diagnosticSettings/metrics.enabled", "equals": PARAMETERS("metricsEnabled")],
"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],
"contentVersion": "1.0.0.0", 
"parameters": {"fullName": {"type": "string"}, 
"location": {"type": "string"}, 
"eventHubRuleId": {"type": "string"}, 
"metricsEnabled": {"type": "string"}, 
"logsEnabled": {"type": "string"}, 
"profileName": {"type": "string"}
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"resources": [{"type": "Microsoft.Sql/servers/databases/providers/diagnosticSettings", 
"apiVersion": "2017-05-01-preview", 
"name": CONCAT(PARAMETERS("fullName"),
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 PARAMETERS("profileName")),
"location": PARAMETERS("location"),
"dependsOn": [],
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"metrics": [{"category": "AllMetrics", "enabled": PARAMETERS("metricsEnabled")},
"retentionPolicy": {"enabled": "false", "days": 0},
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"enabled": PARAMETERS("logsEnabled")},
"category": "QueryStoreWaitStatistics", "enabled": PARAMETERS("logsEnabled"),
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"category": "DatabaseWaitStatistics", "enabled": PARAMETERS("logsEnabled"),
"category": "Blocks", "enabled": PARAMETERS("logsEnabled"),
"category": "SQLInsights", "enabled": PARAMETERS("logsEnabled"),
"category": "Audit", "enabled": PARAMETERS("logsEnabled"),
"category": "SQLSecurityAuditEvents", "enabled": PARAMETERS("logsEnabled"),
"category": "Timeouts", "enabled": PARAMETERS("logsEnabled"),
"category": "AutomaticTuning", "enabled": PARAMETERS("logsEnabled"),
"category": "Deadlocks", "enabled": PARAMETERS("logsEnabled")],
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"eventHubRuleId": "value": "[parameters("eventHubRuleId")]",
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"logsEnabled": {"value": "[parameters("logsEnabled")]",
"profileName": {"value": "[parameters("profileName")]")"]}}
}],
"id": "/providers/Microsoft.Authorization/policyDefinitions/9a7c7a7d-49e5-4213-bea8-6a502b6272e0",
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"name": "9a7c7a7d-49e5-4213-bea8-6a502b6272e0"},
"properties": {"displayName": "Microsoft Managed Control 1049 - System Use Notification", 
"policyType": "Static", 
"mode": "Indexed", 
"description": "Microsoft implements this Access Control control", 
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1049"}
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"Microsoft.Resources/subscriptions/resourceGroups"]},
"value": "false", 
"equals": "true"]},
"then": {"effect": "audit"}}
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"id": "/providers/Microsoft.Authorization/policyDefinitions/9afde2edf-23c2-4dfd-8e6a-e867a5c525fd",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "9afde2edf-23c2-4dfd-8e6a-e867a5c525fd"},
"properties": {"displayName": "Microsoft Managed Control 1563 - Allocation Of Resources", 
"policyType": "Static", 
"mode": "Indexed", 
"description": "Microsoft implements this System and Services Acquisition control", 
"metadata": {
"version": "1.0.0",
"category": "Regulatory Compliance",
"additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1563"}
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"policyRule": 
{"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", 
"Microsoft.Resources/subscriptions/resourceGroups"]},
"value": "false", 
"equals": "true"]},
"then": {"effect": "audit"}}
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"id": "/providers/Microsoft.Authorization/policyDefinitions/9afe2edf-23c2-4dfd-8e6a-e867a5c525fd",
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"name": "9afe2edf-23c2-4dfd-8e6a-e867a5c525fd"},
"properties": {"displayName": "Microsoft
Managed Control 1462 - Monitoring Physical Access

Microsoft implements this Physical and Environmental Protection control

Microsoft implements this Physical and Environmental Protection control

Microsoft implements this Physical and Environmental Protection control

Microsoft implements this Physical and Environmental Protection control

Microsoft implements this Physical and Environmental Protection control

Managed Control 1236 - Software Usage

This policy audits any Windows server VM without Microsoft IaaS Antimalware extension deployed.

Managed Control 1525 - Personnel Transfer

This policy audits any Windows server VM without Microsoft IaaS Antimalware extension deployed.

Managed Control 1236 - Software Usage

This policy audits any Windows server VM without Microsoft IaaS Antimalware extension deployed.

Managed Control 1525 - Personnel Transfer

This policy audits any Windows server VM without Microsoft IaaS Antimalware extension deployed.
Audit API Applications that are not using latest supported Java Framework, "policyType": "BuiltIn", "mode": "All", "description": "Use the latest supported Java version for the latest security classes. Using older classes and types can make your application vulnerable.", "metadata": {"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists" }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "microsoft.Web/sites"}, {"anyOf": [{"field": "kind", "equals": "api"}, {"field": "kind", "equals": "apiApp"}]}, {"then": {"effect": ["parameters('effect')"], "details": {"type": "Microsoft.Security/complianceResults", "name": "UseLatestJava", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/9bfe3727-0a17-471f-a2fe-6dd6668745", "type": "Microsoft.Authorization/policyDefinitions", "name": "9bfe3727-0a17-471f-a2fe-6dd6668745"}}]}, {"properties": {"displayName": "Microsoft Managed Control 1138 - Audit Generation", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1138" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]}, {"then": {"effect": "audit"}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/9c284fc0-268a-4f29-af44-3c126674ed4b", "type": "Microsoft.Authorization/policyDefinitions", "name": "9c284fc0-268a-4f29-af44-3c126674ed4b" }, {"properties": {"displayName": "Microsoft Managed Control 1135 - Non-Repudiation", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1135" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]}, {"then": {"effect": "audit"}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/9c308b6b-2429-4b97-86cf-081b8e737b04", "type": "Microsoft.Authorization/policyDefinitions", "name": "9c308b6b-2429-4b97-86cf-081b8e737b04" }, {"properties": {"displayName": "Microsoft Managed Control 1489 - Location Of Information System Components", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1489" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"]}, {"then": {"effect": "audit"}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/9d0a794f-1444-4c96-9534-e35fc8c39ec91", "type": "Microsoft.Authorization/policyDefinitions", "name": "9d0a794f-1444-4c96-9534-e35fc8c39ec91" }, {"properties": {"displayName": "Ensure that "Java version" is the latest, if used as a part of the Function app", "policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, newer versions are released for Java software either due to security flaws or to include additional functionality. Using the latest Java version for Function apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.", "metadata": {"version": "1.0.1", "category": "App Service"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable"}}}}]
or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"JavaLatestVersion
":{"type":"String","metadata":{"displayName":"Latest
Java version","description":"Latest supported Java version for App
Services"},"defaultValue":"11"}},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Web/sites"},{"fi
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s/config","name":"web","existenceCondition":{"anyOf":[{"allOf":[{"field":"Microsoft.Web/sites/config/web.linuxF
xVersion","notContains":"JAVA"},{"field":"Microsoft.Web/sites/config/web.javaVersion","equals":""}]},{"allOf":[
{"field":"Microsoft.Web/sites/config/web.linuxFxVersion","like":"[concat(''*'',
parameters(''JavaLatestVersion''))]"},{"field":"Microsoft.Web/sites/config/web.javaVersion","equals":""}]},{"allOf"
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javaVersion","like":"[concat(parameters(''JavaLatestVersion''),
''*'')]"}]}]}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/9d0b6ea4-93e2-4578-bf2f6bb17d22b4bc","type":"Microsoft.Authorization/policyDefinitions","name":"9d0b6ea4-93e2-4578-bf2f6bb17d22b4bc"},{"properties":{"displayName":"Microsoft
Managed Control 1322 - Authenticator
Management","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Identification and Authentication
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1322"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/9d1d971e-467e-4278-9633c74c3d4fecc4","type":"Microsoft.Authorization/policyDefinitions","name":"9d1d971e-467e-4278-9633c74c3d4fecc4"},{"properties":{"displayName":"[Preview]:
Deploy Log Analytics agent to Linux Azure Arc
machines","policyType":"BuiltIn","mode":"Indexed","description":"This
policy deploys the Log Analytics agent to Linux Azure Arc machines if the
agent isn''t installed.","metadata":{"version":"1.0.0preview","category":"Monitoring","preview":true},"parameters":{"logAnalytics":{"type":"String","metadata":{"dis
playName":"[Preview]:
Log Analytics workspace","description":"Specify the Log Analytics workspace
the agent should be connected to. If this workspace is outside of the scope
of the assignment you must manually grant ''Log Analytics Contributor'' permissions
(or similar) to the policy assignment''s principal
ID.","strongType":"omsWorkspace","assignPermissions":true}}},"policyRule":{"if":{"allOf":[{"field":"type","equa
ls":"Microsoft.HybridCompute/machines"},{"field":"Microsoft.HybridCompute/imageOffer","like":"linux*"}]},"th
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nIds":["/providers/Microsoft.Authorization/roleDefinitions/92aaf0da-9dab-42b6-94a3d43ce8d16293"],"existenceCondition":{"allOf":[{"field":"Microsoft.HybridCompute/machines/extensions/type","eq
uals":"OmsAgentForLinux"},{"field":"Microsoft.HybridCompute/machines/extensions/publisher","equals":"Micros
als":"Succeeded"}]},"deployment":{"properties":{"mode":"incremental","template":{"$schema":"http://schema.man
agement.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{
"type":"string"},"logAnalytics":{"type":"string"}},"variables":{"vmExtensionName":"MMAExtension","vmExtensi
onPublisher":"Microsoft.EnterpriseCloud.Monitoring","vmExtensionType":"OmsAgentForLinux"},"resources":[{"n
ame":"[concat(parameters(''vmName''),

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"f",
variables("vmExtensionName("))", "type": 
Microsoft.HybridCompute/machines/extensions", 
"location": 
[parameters("location")], 
"apiVersion": 
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"type": 
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"settings": 
"workspaceId": 
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"2015-03-20"].customerId], 
"stopOnMultipleConnections": 
"true"], 
"protectedSettings": 
"workspaceKey": 
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"2015-03-20"].primarySharedKey], 
"outputs": 
{ "policy": 
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"value": 
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"location": 
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"logAnalytics": 
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"type": 
Microsoft.Authorization/policyDefinitions, 
"name": 
9d2b61b4-1d14-4a63-be30-d4498e7ad2cf], 
"properties": 
{ "displayName": 
"Microsoft Managed Control 1233 - Configuration Management Plan", 
"policyType": "Static", 
"mode": "Indexed", 
"description": 
"Microsoft implements this Configuration Management control", 
"metadata": 
{ "version": "1.0.0", 
"category": "Regulatory Compliance", 
"additionalMetadataId": 
/providers/Microsoft.PolicyInsights/policyMetadata/ACF1233", 
"policyRule": 
{ "if": 
[allOf([field("type", "in": 
[Microsoft.Resources/subscriptions, 
Microsoft.Resources/subscriptions/subscriptionGroups])], 
{ "value": false, 
"equals": true ]), 
then": 
{ "effect": "audit" 
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"id": 
/providers/Microsoft.Authorization/policyDefinitions/9d79001f-95fe-45d0-8736-f217e78cf157], 
"type": 
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"name": 
9d79001f-95fe-45d0-8736-f217e78cf157], 
"properties": 
{ "displayName": 
"Microsoft Managed Control 1305 - Identification And Authentication (Org. Users) | Group Authentication", 
"policyType": "Static", 
"mode": "Indexed", 
"description": 
"Microsoft implements this Identification and Authentication control", 
"metadata": 
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{ "value": false, 
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then": 
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}], 
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/providers/Microsoft.Authorization/policyDefinitions/9d9166a8-1722-4b8f-847e-2cf3f2618bd3], 
"type": 
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"name": 
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"properties": 
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"Microsoft Managed Control 1259 - Contingency Planning Training", 
"policyType": "Static", 
"mode": "Indexed", 
"description": 
"Microsoft implements this Contingency Planning control", 
"metadata": 
{ "version": "1.0.0", 
"category": "Regulatory Compliance", 
"additionalMetadataId": 
/providers/Microsoft.PolicyInsights/policyMetadata/ACF1259", 
"policyRule": 
{ "if": 
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[Microsoft.Resources/subscriptions, 
Microsoft.Resources/subscriptions/subscriptionGroups])], 
{ "value": false, 
"equals": true ]), 
then": 
{ "effect": "audit" 
}], 
"id": 
/providers/Microsoft.Authorization/policyDefinitions/9d9e18f7-bad9-4d30-8806-a0c9d5e26208], 
"type": 
Microsoft.Authorization/policyDefinitions, 
"name": 
9d9e18f7-bad9-4d30-8806-a0c9d5e26208], 
"properties": 
{ "displayName": "Access through Internet facing endpoint should be restricted", 
"policyType": "BuiltIn", 
"mode": "All", 
"description": 
"Azure Security center has identified some of your Network Security Groups' inbound rules to be too permissive. Inbound rules should not allow access from "Any" or "Internet" ranges. This can potentially enable attackers to easily target
Managed Control 1500 - Rules Of Behavior, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Planning control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1500"
}, "policyRule": {
"if": {
"allOf": [
{"field": "type", "in": ["Microsoft/Resources/subscriptions", "Microsoft/Resources/subscriptions/subscriptions"]},
{"value": false, "equals": true}],
"then": {
"effect": "audit"}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/9dd5b241-03cb-47d3-a5cd-4b89f9e53c92"
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"properties": {
"displayName": "Microsoft Managed Control 1482 - Temperature And Humidity Controls | Monitoring With Alarms / Notifications", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1482"
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"if": {
"allOf": [
{"field": "type", "in": ["Microsoft/Resources/subscriptions", "Microsoft/Resources/subscriptions/subscriptions"]},
{"value": false, "equals": true}],
"then": {
"effect": "audit"}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/9df4277e-8c88-4d5c-9b1a-541d53d15d7b"
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"properties": {
"displayName": "Microsoft Managed Control 1553 - Vulnerability Scanning | Breadth / Depth Of Coverage", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {
"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1553"
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{"field": "type", "in": ["Microsoft/Resources/subscriptions", "Microsoft/Resources/subscriptions/subscriptions"]},
{"value": false, "equals": true}],
"then": {
"effect": "audit"}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/9e5225fe-cdfb-4fcd-e29ae-0fe20dd53b62"
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"properties": {
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"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1490"
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{"value": false, "equals": true}],
"then": {
"effect": "audit"}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/9e61da80-0957-4892-b70c-609d5eabfb6b"
},
"properties": {
"displayName": "Microsoft Managed Control 1504 - Information Security Architecture", "policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1504"},"policyRule ":{"if":{"allOf":["field":{"type":"in","value":"Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"}],"value":false,"equals":true"}],"then":{"effect":"audit"}}},id="/providers/Microsoft.Authorization/policyDefinitions/9e7c35d0-12d4-4e0c-80a2-8a352537ae67","type":"Microsoft.Authorization/policyDefinitions","name":"9e7c35d0-12d4-4e0c-80a2-8a352537ae67","properties":{"displayName":"Microsoft Managed Control 1609 - Development Process, Standards, And Tools","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1609"},"policyRule ":{"if":{"allOf":["field":{"type":"in","value":"Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"}],"value":false,"equals":true"}],"then":{"effect":"audit"}}},id="/providers/Microsoft.Authorization/policyDefinitions/9e93fa71-42ac-41a7-b177-efbfdec53c69f","type":"Microsoft.Authorization/policyDefinitions","name":"9e93fa71-42ac-41a7-b177-efbfdec53c69f","properties":{"displayName":"Append a tag and its value from the resource group","policyType":"BuiltIn","mode":"Indexed","description":"Appends the specified tag with its value from the resource group when any resource which is missing this tag is created or updated. Does not modify the tags of resources created before this policy was applied until those resources are changed. New "modify" effect policies are available that support remediation of tags on existing resources (see https://aka.ms/modifydoc."},"metadata":{"version":"1.0.0","category":"Tags"},"parameters":{"tagName":{"type":"String","metadata":{"displayName":"Tag Name","description":"Name of the tag, such as "environment""}}},"policyRule":{"if":{"allOf":["field":{"concat\["tags\[\"parameters\["tagName\"]\"]\]","exists":false},"value":"\[resourceGroup().tags[parameters\["tagName\"]]\]","notEquals":""}],"then":{"effect ":"append","details":["field":{"concat\["tags\[\"parameters\["tagName\"]\]"]"}]},id="/providers/Microsoft.Authorization/policyDefinitions/9ea02ca2-71db-412d-8b00-7c7ca9fced32d","type":"Microsoft.Authorization/policyDefinitions","name":"9ea02ca2-71db-412d-8b00-7c7ca9fced32d","properties":{"displayName":"Microsoft Managed Control 1494 - System Security Plan","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1494"},"policyRule ":{"if":{"allOf":["field":{"type":"in","value":"Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"}],"value":false,"equals":true"}],"then":{"effect":"audit"}}},id="/providers/Microsoft.Authorization/policyDefinitions/9ed09d84-3311-4853-8bb7-2b55dfa33d09","type":"Microsoft.Authorization/policyDefinitions","name":"9ed09d84-3311-4853-8bb7-2b55dfa33d09","properties":{"displayName":"Microsoft Managed Control 1514 - Personnel Screening | Information With Special Protection Measures","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Personnel Security control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1514"},"policyRule ":{"if":{"allOf":["field":{"type":"in","value":"Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"}],"value":false,"equals":true"}],"then":{"effect":"audit"}}},id="/providers/Microsoft.Authorization/policyDefinitions/9ed09d84-3311-4853-8bb7-2b55dfa33d09"}
Show audit results from Windows VMs on which the Log Analytics agent is not connected as expected, "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines on which the Log Analytics agent is not connected to the specified workspaces. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol";
Open Source Used In SDWan

Microsoft Managed Control 1245 - Contingency Plan

Microsoft Managed Control 1406 - Maintenance Tools | Inspect Media

Security Center standard pricing tier should be selected

Center standard pricing tier enables threat detection for networks and virtual machines, providing threat intelligence, anomaly detection, and behavior analytics in Azure Security Center.
authorization rules except RootManageSharedAccessKey should be removed from Service Bus namespace.

Service Bus clients should not use a namespace level access policy that provides access to all queues and topics in a namespace. To align with the least privilege security model, you should create access policies at the entity level for queues and topics to provide access to only the specific entity.

Managed Control 1265 - Contingency Plan Testing | Alternate Processing Site

Microsoft implements this Contingency Planning control.

Deploy Diagnostic Settings for Logic Apps to Event Hub

Deploy the diagnostic settings for Logic Apps to stream to a regional Event Hub when any Logic Apps which is missing this diagnostic settings is created or updated.

The Event Hub Authorization Rule Id, description: The Event Hub authorization rule Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. e.g. /subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/namespaces/{Event Hub namespace}/authorizationrules/{authorization rule}.

The Event Hub Location, description: The location the Event Hub resides in. Only Logic Apps in this location will be linked to this Event Hub.

- True or...
Show audit results from Windows VMs configurations in "Administrative Templates - System".

This policy should only be used along with its corresponding deploy policy in an initiative.

This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Administrative Templates - System". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1612 - Developer Security Architecture And Design

Managed Control 1197 - Configuration Change Control | Test / Validate / Document Changes

Managed Control 1275 - Alternate Processing Site | Separation From Primary Site

Managed Control 1690 - Information System Monitoring | System-Wide Intrusion Detection System
Managed Control 1410 - Maintenance Tools | Prevent Unauthorized Removal, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1410"}, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a2567a23-d1c3-4783-99f3-d471302a4d6b", "type": "Microsoft.Authorization/policyDefinitions", "name": "a2567a23-d1c3-4783-99f3-d471302a4d6b", "properties": {"displayName": "Microsoft Managed Control 1410 - Maintenance Tools | Prevent Unauthorized Removal", "policyType": "Static", "mode": "Indexed", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that are not joined to the specified domain.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a2596a9f-e59f-420d-9625-6e0b536348be", "type": "Microsoft.Authorization/policyDefinitions", "name": "a2596a9f-e59f-420d-9625-6e0b536348be", "properties": {"displayName": "Microsoft Managed Control 1059 - Remote Access", "policyType": "Static", "mode": "Indexed", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that are not joined to the specified domain.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a29b5d9f-4953-4afe-b560-203af410b6b4", "type": "Microsoft.Authorization/policyDefinitions", "name": "a29b5d9f-4953-4afe-b560-203af410b6b4", "properties": {"displayName": "Show audit results from Windows VMs that are not joined to the specified domain", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that are not joined to the specified domain.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"}
Managed Control 1532 - Third-Party Personnel Security

implements this Personnel Security control, "| metadata": | version": | 1.0.0", | category": | "Regulatory Compliance", | "additionalMetadataId": | /providers/Microsoft.PolicyInsights/policyMetadata/ACF1532", | "policyRule": | "if": | | allOf": | ["field": | "type", | in": | "Microsoft.Resources/subscriptions", | "Microsoft.Resources/subscriptions/resourceGroups"]}, | | value": | false", | "equals": | "true"])), | then": | | "effect": | "audit")}, | id": | /providers/Microsoft.Authorization/policyDefinitions/a29ee95c-0395-4515-9851-cc04ffe82a91", | "type": | "Microsoft.Authorization/policyDefinitions", | "name": | "a29ee95c-0395-4515-9851-cc04ffe82a91", | | "properties": | ["displayName": | "Microsoft Managed Control 1664 - Protection Of Information At Rest | Cryptographic Protection",

implements this System and Communications Protection control", | metadata": | | version": | 1.0.0", | category": | "Regulatory Compliance", | "additionalMetadataId": | /providers/Microsoft.PolicyInsights/policyMetadata/ACF1664", | "policyRule": | "if": | | allOf": | ["field": | "type", | in": | "Microsoft.Resources/subscriptions", | "Microsoft.Resources/subscriptions/resourceGroups"]}, | | value": | false", | "equals": | "true"])), | then": | | "effect": | "audit")}, | id": | /providers/Microsoft.Authorization/policyDefinitions/a2c66299-9017-4d95-8040-88dbf7901d52", | "type": | "Microsoft.Authorization/policyDefinitions", | "name": | "a2c66299-9017-4d95-8040-88dbf7901d52", | | "properties": | ["displayName": | "Microsoft Managed Control 1252 - Contingency Plan | Capacity Planning",

implements this Contingency Planning control", | metadata": | | version": | 1.0.0", | category": | "Regulatory Compliance", | "additionalMetadataId": | /providers/Microsoft.PolicyInsights/policyMetadata/ACF1252", | "policyRule": | "if": | | allOf": | ["field": | "type", | in": | "Microsoft.Resources/subscriptions", | "Microsoft.Resources/subscriptions/resourceGroups"]}, | | value": | false", | "equals": | "true"])), | then": | | "effect": | "audit")}, | id": | /providers/Microsoft.Authorization/policyDefinitions/a328fd72-8ff5-4f96-8c9e-b30ed95db4ab", | "type": | "Microsoft.Authorization/policyDefinitions", | "name": | "a328fd72-8ff5-4f96-8c9e-b30ed95db4ab", | | "properties": | ["displayName": | "Microsoft Managed Control 1238 - User-Installed Software",

implements this Configuration Management control", | metadata": | | version": | 1.0.0", | category": | "Regulatory Compliance", | "additionalMetadataId": | /providers/Microsoft.PolicyInsights/policyMetadata/ACF1238", | "policyRule": | "if": | | allOf": | ["field": | "type", | in": | "Microsoft.Resources/subscriptions", | "Microsoft.Resources/subscriptions/resourceGroups"]}, | | value": | false", | "equals": | "true"])), | then": | | "effect": | "audit")}, | id": | /providers/Microsoft.Authorization/policyDefinitions/a36cedd4-3ffd-4b1f-8b18-aa71d8d87ce1", | "type": | "Microsoft.Authorization/policyDefinitions", | "name": | "a36cedd4-3ffd-4b1f-8b18-aa71d8d87ce1", | | "properties": | ["displayName": | "Microsoft Managed Control 1693 - Information System Monitoring | System-Generated Alerts",

implements this System and Information Integrity
Open Source Used In SDWan 20.6.1  17936

Microsoft Managed Control 1617 - Application Partitioning

Policy Requirements:
- **Audit usage of custom RBAC rules**
  - BuiltIn
  - All
  - Audit built-in roles such as Owner, Contributor, Reader instead of custom RBAC roles, which are error prone. Using custom roles is treated as an exception and requires a rigorous review and threat modeling.

Policy Definition:
- **Audit usage of custom RBAC rules**
  - *Type*: Microsoft.Authorization/roleDefinitions
  - *Effect*: "Audit"
  - *Description*: Audit built-in roles such as Owner, Contributor, Reader instead of custom RBAC roles, which are error prone. Using custom roles is treated as an exception and requires a rigorous review and threat modeling.

Application Requirements:
- **HTTPS**
  - *Type*: Microsoft.Web/sites
  - *Effect*: "Audit"
  - Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks.

Policy Definition:
- **Web Application should only be accessible over HTTPS**
  - *Type*: Microsoft.Web/sites
  - *Effect*: "Audit"
  - Use of HTTPS ensures server/service authentication and protects data in transit from network layer eavesdropping attacks.

Policy Requirements:
- **Auditing on SQL server should be enabled**
  - *Type*: Microsoft.Sql.Database
  - *Effect*: "Audit"
  - Auditing on your SQL Server should be enabled to track database activities across all databases on the server and save them in an audit log.

Policy Definition:
- **Auditing on SQL server should be enabled**
  - *Type*: Microsoft.Sql.Database
  - *Effect*: "Audit"
  - Auditing on your SQL Server should be enabled to track database activities across all databases on the server and save them in an audit log.
Log Analytics agent should be installed on virtual machines, policyType:’BuiltIn’, mode:’Indexed’, description:’This policy audits any Windows/Linux virtual machines if the Log Analytics agent is not installed.’, metadata:’version:’1.0.0’, category:’Monitoring’, parameters:’effect’:’String’, metadata:’displayName:’Effect’, description:’Enable or disable the execution of the policy.’, allowedValues:’AuditIfNotExists, Disabled’, defaultValue:’AuditIfNotExists’).

Managed Control 1431 - Media Storage, policyType:’Static’, mode:’Indexed’, description:’Microsoft implements this Media Protection control’, metadata:’version:’1.0.0’, category:’Regulatory Compliance’, additionalMetadataId:’/providers/Microsoft.PolicyInsights/policyMetadata/ACF1431’).

Managed Control 1644 - Cryptographic Key Establishment And Management | Availability, policyType:’Static’, mode:’Indexed’, description:’Microsoft implements this System and Communications Protection control’, metadata:’version:’1.0.0’, category:’Regulatory Compliance’, additionalMetadataId:’/providers/Microsoft.PolicyInsights/policyMetadata/ACF1644’).

Managed Control 1027 - Access Enforcement, policyType:’Static’, mode:’Indexed’, description:’Microsoft implements this Access Control control’, metadata:’version:’1.0.0’, category:’Regulatory Compliance’, additionalMetadataId:’/providers/Microsoft.PolicyInsights/policyMetadata/ACF1027’).
Protection Standard should be enabled.**

**Policy Rule:**
- If the type is `microsoft.network/virtualNetworks`, then:
  - Change the `effect` to the chosen value (AuditIfNotExists, Disabled).

**Parameters:**
- `effect` (String)
- `type` (String)

**ID:** /providers/Microsoft.Authorization/policyDefinitions/a76ca9b0-3f4a-4192-9a38-b25e4f8ae48c

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**Microsoft Managed Control 1570 - Acquisition Process**

- **Policy Type:** Static
- **Mode:** Indexed
- **Description:** Microsoft implements this System and Services Acquisition control.

**Policy Rule:**
- If the type is not in `Microsoft.Resources/subscriptions` or `Microsoft.Resources/subscriptions/resourceGroups`, then:
  - Audit.

**ID:** /providers/Microsoft.Authorization/policyDefinitions/a7aca53f-2ed4-4466-a25e-0b45ade68efd

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**Require encryption on Data Lake Store accounts**

- **Policy Type:** BuiltIn
- **Mode:** Indexed
- **Description:** This policy ensures encryption is enabled on all Data Lake Store accounts.

**Policy Rule:**
- If the `Microsoft.DataLakeStore/accounts/encryptionState` is Disabled, then:
  - Deny.

**ID:** /providers/Microsoft.Authorization/policyDefinitions/a7ff3161-0087-490a-9ad9-ad6217f4f43a

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**Microsoft Managed Control 1295 - Information System Recovery And Reconstitution**

- **Policy Type:** Static
- **Mode:** Indexed
- **Description:** Microsoft implements this Contingency Planning control.

**Policy Rule:**
- If the type is not in `Microsoft.Resources/subscriptions` or `Microsoft.Resources/subscriptions/resourceGroups`, then:
  - Audit.

**ID:** /providers/Microsoft.Authorization/policyDefinitions/a895fbdb-204d-4302-9689-0a59dc42b3d9

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**Open Source Used in SDWan**

**ID:** a76ca9b0-3f4a-4192-9a38-b25e4f8ae48c

**Description:** Transparent Data Encryption on SQL databases should be enabled.

**Metadata:**
- `version`: 1.0.0-
deprecated","category":"Security
Center","deprecated":true,"parameters":{"effect":{"type":"String","metadata":{"displayName":"[Deprecated]: Effect","description":"Enable or disable the execution of the policy"},"allowedValues":null,"defaultValue":null,"policyRule":{"if":{"field":"type","in":null},"then":null,"details":null},"type":"Security/complianceResults","name":"encryption","existenceCondition":null},"id":null,"properties":null}]

Managed Control 1283 - Telecommunications Services | Separation Of Primary
/ Alternate Providers,"policyType":"Static","mode":"Indexed","description":null

implements this Contingency Planning control","metadata":{"version":"1.0.0","category":"Regulatory

Managed Control 1400 - Controlled
Maintenance,"policyType":"Static","mode":"Indexed","description":null

implements this Maintenance control","metadata":{"version":"1.0.0","category":null,"additionalMetadataId":null,"policyRule":null,"if":null,"then":null,"details":null},"type":null,"name":null,"id":null,"properties":null}]

Managed Control 1118 - Audit Review, Analysis, And Reporting | Correlate Audit
Repositories,"policyType":"Static","mode":null,"description":null


Managed Control 1199 - Configuration Change Control | Cryptography
Management,"policyType":"Static","mode":null,"description":null


Show audit results from Windows VMs configurations in "System Audit Policies
- Detailed Tracking"","policyType":"BuiltIn","mode":null,"description":null

This
policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Detailed Tracking". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```json


"then": {"effect": "auditIfNotExists", "details": {
"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "AzureBaseline_SystemAuditPoliciesDetailedTracking", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant"}}}

"id": "/providers/Microsoft.Authorization/policyDefinitions/a9a33475-481d-4b81-9116-0bf02ffe67e8"}
```
Managed Control 1511 - Personnel
Screening, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1511"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, {"then": {"effect": "audit"}}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a9b99dd8-06c5-4317-8629-9d86a3e67d9", "name": "a9b99dd8-06c5-4317-8629-9d86a3e67d9"}, {"properties": {"displayName": "Microsoft Managed Control 1511 - Personnel Screening"}}

Authentication (MFA) should be enabled for all subscription accounts with owner permissions to prevent a breach of accounts or resources.

that Register with Azure Active Directory is enabled on WEB App, "policyType": "BuiltIn", "mode": "Indexed", "description": "Managed service identity in App Service makes the app more secure by eliminating secrets from the app, such as credentials in the connection strings. When registering with Azure Active Directory in the app service, the app will connect to other Azure services securely without the need of username and passwords.

Managed Control 1539 - Security Categorization, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1539"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions"]}, {"value": "false", "equals": "true"]}, {"then": {"effect": "audit"}}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a9eae324-d327-4539-9293-b48e122465f8", "name": "a9eae324-d327-4539-9293-b48e122465f8"}, {"properties": {"displayName": "MFA should be enabled on accounts with owner permissions on your subscription"}}

that Register with Azure Active Directory is enabled on WEB App, "policyType": "BuiltIn", "mode": "Indexed", "description": "Managed service identity in App Service makes the app more secure by eliminating secrets from the app, such as credentials in the connection strings. When registering with Azure Active Directory in the app service, the app will connect to other Azure services securely without the need of username and passwords.

Managed Control 1539 - Security Categorization, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1539"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions"]}, {"value": "false", "equals": "true"]}, {"then": {"effect": "audit"}}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/a9eae324-d327-4539-9293-b48e122465f8", "name": "a9eae324-d327-4539-9293-b48e122465f8"}, {"properties": {"displayName": "MFA should be enabled on accounts with owner permissions on your subscription"}}
Managed Control 1006 - Account
Management,"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1006"},"policyRule":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }],"then": {"effect": "audit" } },"id":/providers/Microsoft.Authorization/policyDefinitions/aabb155f-e7a5-4896-a767-e918bfac2ee0","type":"Microsoft.Authorization/policyDefinitions","name":"aabb155f-e7a5-4896-a767-e918bfac2ee0","properties":{"displayName":"Microsoft Managed Control 1006 - Account"},"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1006"},"policyRule":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }],"then": {"effect": "audit" } },"id":/providers/Microsoft.Authorization/policyDefinitions/aae8d54c-4bce-4c04-b3aa-5b65b67caac8","type":"Microsoft.Authorization/policyDefinitions","name":"aae8d54c-4bce-4c04-b3aa-5b65b67caac8","properties":{"displayName":"Microsoft Managed Control 1461 - Monitoring Physical Access"},"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Physical and Environmental Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1461"},"policyRule":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }],"then": {"effect": "audit" } },"id":/providers/Microsoft.Authorization/policyDefinitions/aafef03e-fea8-470b-88fa-54bd1fcd7064","type":"Microsoft.Authorization/policyDefinitions","name":"aafef03e-fea8-470b-88fa-54bd1fcd7064","properties":{"displayName":"Microsoft Managed Control 1073 - Access Control For Mobile Devices"},"policyType":"Static","mode":"Indexed","description":"Microsoft implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1073"},"policyRule":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"] }],"then": {"effect": "audit" } },"id":/providers/Microsoft.Authorization/policyDefinitions/ab55cdb0-c7dd-4bd8-ae22-a7cea7594e9c","type":"Microsoft.Authorization/policyDefinitions","name":"ab55cdb0-c7dd-4bd8-ae22-a7cea7594e9c","properties":{"displayName":"Ensure that "PHP version" is the latest, if used as a part of the Function app"},"policyType":"BuiltIn","mode":"Indexed","description": "Periodically, newer versions are released for PHP software either due to security flaws or to include additional functionality. Using the latest PHP version for Function apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.","metadata":{"version":"1.0.0","category":"App Service"},"parameters":{"effect":{"type":"String"},"metadata":{"displayName":"Effect"},"description":"Enable or disable the execution of the policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"PHPLatestVersion ":{"type":"String"},"metadata":{"displayName":"Latest PHP version"},"description":"Latest supported PHP version for App Services"},"defaultValue":"7.3"},"policyRule":{"if":{"allOf": [{"field":"type","equals": "Microsoft.Web/sites"}, {"field": "kind","like": "functionapp*" }], "then": {"effect": "audit"}},"details":{"type": "Microsoft.Web/sites/config","name": "web","existenceCondition": {"anyOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion","notContains": "PHP"}, {"field": "Microsoft.Web/sites/config/web.phpVersion","equals": ""}]},"allOf": [{"field": "Microsoft.Web/sites/config/web.linuxFxVersion","equals": ""}, {"concat("PHP")", "}]}
Automatic provisioning of security monitoring agent, "policyType": "BuiltIn", "mode": "All", "description": "Installs security agent on VMs for advanced security alerts and prevention in Azure Security Center. Applies only for subscriptions that use Azure Security Center.", "metadata": {"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true }, "parameters": [], "policyRule": { "if": { "field": "type", "in": ["Microsoft.Compute/virtualMachines", "Microsoft.ClassicCompute/virtualMachines"] }, "then": { "effect": "AuditIfNotExists", "details": { "type": "Microsoft.Security/complianceResults/securityAgent", "existenceCondition": { "field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"] } } } } }}

Managed Control 1323 - Authenticator Management, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1323" }, "policyRule": { "if": { "allOf": [ { "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "audit" } } }

Advanced data security should be enabled on your SQL servers, "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit SQL servers without Advanced Data Security", "metadata": {"version": "1.0.0", "category": "SQL" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" } }, "allowedValues": ["AuditIfNotExists", "Disabled" ] }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.Sql/servers" }, "then": { "effect": "[parameters(''effect'')]" } } }

Advanced data security should be enabled on your SQL managed instances, "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit SQL managed instances without Advanced Data Security", "metadata": {"version": "1.0.1", "category": "SQL" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" } }, "allowedValues": ["AuditIfNotExists", "Disabled" ] }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.Sql.ManagedInstances" } } }
Azure Security Center on your subscription,

**Policy Type**: BuiltIn, **Mode**: All, **Description**: Identifies existing subscriptions that are not monitored by Azure Security Center (ASC). Subscriptions not monitored by ASC will be registered to the free pricing tier. Subscriptions already monitored by ASC (free or standard), will be considered compliant. To register newly created subscriptions, open the compliance tab, select the relevant non-compliant assignment and create a remediation task. Repeat this step when you have one or more new subscriptions you want to monitor with Security Center.

**Metadata**: version: 1.0.0, Category: Security Center


Microsoft Managed Control 1056 - Session Termination | User-Initiated Logouts / Message Displays

**Policy Type**: Static, **Mode**: Indexed, **Description**: Microsoft implements this Access Control control

**Metadata**: version: 1.0.0, Category: Regulatory Compliance


Role-Based Access Control (RBAC) should be used on Kubernetes Services

**Policy Type**: BuiltIn, **Mode**: All, **Description**: To provide granular filtering on the actions that users can perform, use Role-Based Access Control (RBAC) to manage permissions in Kubernetes Service Clusters and configure relevant authorization policies.

Allow resource creation if "environment" tag value in allowed values, policyType: "BuiltIn", mode: "Indexed", description: "Allows resource creation if the "environment" tag is set to one of the following values: production, dev, test, staging", metadata: "{"version": "1.0.0-deprecated", "category": "Tags", deprecated": true, }" parameters: {} , policyRule: "{"if": {"not": {"field": "tags["environment"]", in: ["production", "dev", "test", "staging"]}, "then": {"effect": "Deny"} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/ac7e5fc0-c029-4b12-91d4-a8500ce697f9","type": "Microsoft.Authorization/policyDefinitions", "name": "ac7e5fc0-c029-4b12-91d4-a8500ce697f9"}

Managed Control 1569 - Acquisition Process
policyType: "Static", mode: "Indexed", description: "Microsoft implements this System and Services Acquisition control",
metadata: "{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1569"}
policyRule: "{"if": {"allOf": ["field": "type", in: ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], ["value": false, "equals": true]], "then": {"effect": "audit"} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/ad2f8e61-a564-4dfd-8eaa-816f5be8cb34", "type": "Microsoft.Authorization/policyDefinitions", "name": "ad2f8e61-a564-4dfd-8eaa-816f5be8cb34"}"

Managed Control 1454 - Physical Access Control
policyType: "Static", mode: "Indexed", description: "Microsoft implements this Physical and Environmental Protection control",
metadata: "{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1454"}
policyRule: "{"if": {"allOf": ["field": "type", in: ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], ["value": false, "equals": true]], "then": {"effect": "audit"} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/ad58985d-ab32-4f99-8bd3-b7e134e90229", "type": "Microsoft.Authorization/policyDefinitions", "name": "ad58985d-ab32-4f99-8bd3-b7e134e90229"}"

Managed Control 1025 - Account Management | Account Monitoring | Atypical Usage
policyType: "Static", mode: "Indexed", description: "Microsoft implements this Access Control control",
metadata: "{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1025"}
policyRule: "{"if": {"allOf": ["field": "type", in: ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], ["value": false, "equals": true]], "then": {"effect": "audit"} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/adfe020d-0a97-45f4-a39c-696ef99f3a95", "type": "Microsoft.Authorization/policyDefinitions", "name": "adfe020d-0a97-45f4-a39c-696ef99f3a95"}"

Managed Control 1272 - Alternate Processing Site
policyType: "Static", mode: "Indexed", description: "Microsoft implements this Contingency Planning control",
metadata: "{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1272"}
policyRule: "{"if": {"allOf": ["field": "type", in: ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], ["value": false, "equals": true]], "then": {"effect": "audit"} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/ae46cf7a-e3fd-427b-9b91-44bc78e2d9d8", "type": "Microsoft.Authorization/policyDefinitions", "name": "ae46cf7a-e3fd-427b-9b91-44bc78e2d9d8"}"

Open Source Used in SDWan 20.6.1 17945
Server should use a virtual network service endpoint. "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any SQL Server not configured to use a virtual network service endpoint.", "metadata": {"version": "1.0.0", "category": "Network"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": [{"AuditIfNotExists", "Disabled"}, {"defaultValue": "AuditIfNotExists"}]}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Sql/servers"}, "then": {"effect": ["parameters(effect)"], "details": {"type": "Microsoft.Sql/servers/virtualNetworkRules", "existenceCondition": {"field": "Microsoft.Sql/servers/virtualNetworkRules/virtualNetworkSubnetId", "exists": "true"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/ae5d2f14-d830-42b6-9899-df6ce9c71a3", "type": "Microsoft.Authorization/policyDefinitions", "name": "ae5d2f14-d830-42b6-9899-df6ce9c71a3", "properties": {"displayName": "Microsoft Managed Control 1598 - Developer Configuration Management"}, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1598"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": ["audit"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/ae7e1f5e-2d63-4b38-91ef-bce14151ce3", "type": "Microsoft.Authorization/policyDefinitions", "name": "ae7e1f5e-2d63-4b38-91ef-bce14151ce3", "properties": {"displayName": "Email notifications to admins and subscription owners should be enabled in SQL managed instance advanced data security settings"}, "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit that "email notification to admins and subscription owners" is enabled in the SQL managed instance advanced threat protection settings. This ensures that any detections of anomalous activities on SQL managed instance are reported as soon as possible to the admins.", "metadata": {"version": "1.0.1", "category": "SQL"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": [{"AuditIfNotExists", "Disabled"}, {"defaultValue": "AuditIfNotExists"}]}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Sql/managedInstances"}, "then": {"effect": ["parameters(effect)"], "details": {"type": "Microsoft.Sql/managedInstances/securityAlertPolicies", "name": "default", "existenceCondition": {"field": "Microsoft.Sql/managedInstances/securityAlertPolicies/emailAccountAdmins", "equals": true}}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/aeb23562-188d-47cb-80b8-551f16ef9ff", "type": "Microsoft.Authorization/policyDefinitions", "name": "aeb23562-188d-47cb-80b8-551f16ef9ff", "properties": {"displayName": "Microsoft Managed Control 1413 - Nonlocal Maintenance"}, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1413"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": ["audit"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/aeddddb6-6bc0-42d5-809b-80048033419d", "type": "Microsoft.Authorization/policyDefinitions", "name": "aeddddb6-6bc0-42d5-809b-80048033419d", "properties": {"displayName": "Microsoft Managed Control 1710 - Security Function"}}
Verification","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1710"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":"false","equals":"true"]","then":[{"effect":"audit"}]},"id":"/providers/Microsoft.Authorization/policyDefinitions/af2a93c8-e6dd-4c94-acdd-4a2eedf478e"},"type":"Microsoft.Authorization/policyDefinitions","name":"af2a93c8-e6dd-4c94-acdd-4a2eedf478e"},"properties":{"displayName":"Monitor missing Endpoint Protection in Azure Security Center","policyType":"BuiltIn","mode":"All","description":"Servers without an installed Endpoint Protection agent will be monitored by Azure Security Center as recommendations"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{"field":"type","in":["Microsoft.Compute/virtualMachines","Microsoft.ClassicCompute/virtualMachines"]},"then":["effect":parameters(effect)],"details":{"type":"Microsoft.Security/complianceResults","name":"endpointProtection","existenceCondition":{"field":"Microsoft.Security/complianceResults/resourceStatus","in":["OffByPolicy","Healthy"]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/af6cd1bd-1635-48cb-bde7-5b15693900b9"},"properties":{"displayName":"[Deprecated]: Monitor unaudited SQL servers in Azure Security Center","policyType":"BuiltIn","mode":"All","description":"SQL servers which don’t have SQL auditing turned on will be monitored by Azure Security Center as recommendations. This policy is deprecated and replaced by the following policy: "Auditing should be enabled on advanced data security settings on SQL Server""},"parameters":{"effect":{"type":"String","metadata":{"displayName":"[Deprecated]: Effect","description":"Enable or disable the execution of the policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{"field":"type","in":["Microsoft.SQL/servers"]},"then":["effect":parameters(effect)],"details":{"type":"Microsoft.Security/complianceResults","name":"auditing","existenceCondition":{"field":"Microsoft.Security/complianceResults/resourceStatus","in":["OffByPolicy","Healthy"]}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/af8051bf-258b-44e2-a2bf-165330459fd"},"properties":{"displayName":"Microsoft Managed Control 1645 - Cryptographic Key Establishment And Management | Symmetric Keys","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Communications Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1645"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":"false","equals":"true"]","then":[{"effect":"audit"}]},"id":"/providers/Microsoft.Authorization/policyDefinitions/afbd0baf-ff1a-4447-a86f-088a97347c0e"},"type":"Microsoft.Authorization/policyDefinitions","name":"afbd0baf-ff1a-4447-a86f-088a97347c0e"},"properties":{"displayName":"Microsoft Managed Control 1725 - Error Handling","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity
Managed Control 1429 - Media Marking, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Media Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1429"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}, "id": "providers/Microsoft.Authorization/policyDefinitions/8af5f3c3-3dcd-431b-84f8-93d410005b98", "type": "Microsoft.Authorization/policyDefinitions", "name": "8af5f3c3-3dcd-431b-84f8-93d410005b98"

Managed Control 1711 - Security Function Verification, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1711"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}, "id": "providers/Microsoft.Authorization/policyDefinitions/8b083a535-a66a-41ec-ba7f-f9498bf67cde", "type": "Microsoft.Authorization/policyDefinitions", "name": "8b083a535-a66a-41ec-ba7f-f9498bf67cde"}
Managed Control 1571 - Acquisition

Policy Name: "Microsoft.IdentityManagement/irodsRules",
"type":"Microsoft.Security/complianceResults","name":"irodsRules","existenceCondition":{"field":"Microsoft.Security/complianceResults/resourceStatus","in":['OffByPolicy','Healthy']}}}

"id":"/providers/Microsoft.Authorization/policyDefinitions/b0f33259-77d7-4c9e-aac6-3aabcfbae693c","type":"Microsoft.Authorization/policyDefinitions","name":"b0f33259-77d7-4c9e-aac6-3aabcfbae693c","properties":{"displayName":"Microsoft Managed Control 1571 - Acquisition Process","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1571"},"policyRule":{"if":{"allOf":[]}}}

"id":"/providers/Microsoft.Authorization/policyDefinitions/b11c985b-f2cd-4bd7-85f4-b5242f905","type":"Microsoft.Authorization/policyDefinitions","name":"b11c985b-f2cd-4bd7-85f4-b5242f905","properties":{"displayName":"[Preview]: Show audit results from Linux VMs that do not have the passwd file permissions set to 0644","policyType":"BuiltIn","mode":"All","description":"This policy should only be used along with its corresponding deploy policy in an initiative.
This definition allows Azure Policy to process the results of auditing Linux virtual machines that do not have the passwd file permissions set to 0644.
For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"}

Show audit results from Linux VMs that do not have the passwd file permissions set to 0644,
"policyType":"BuiltIn","mode":"All","description":"This policy should only be used along with its corresponding deploy policy in an initiative.
This definition allows Azure Policy to process the results of auditing Linux virtual machines that do not have the passwd file permissions set to 0644.
For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"}
Open Source Used In SDWan 20.6.1

Managed Control 1537 - Risk Assessment Policy And Procedures

Managed Control 1091 - Security Awareness Training

Managed Control 1078 - Use Of External Information Systems | Limits On Authorized Use

Managed Control 1009 - Account Management

All authorization rules except RootManageSharedAccessKey should be removed from Event Hub namespace,
Hub"), "parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"The effect determines what happens when the policy rule is evaluated to match"}, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.EventHub/namespaces/authorizationRules"}, {"field": "name", "notEquals": "RootManageSharedAccessKey"}], "then": {"effect": ["parameters('effect')"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/b278e460-7cfc-4451-8294-cccc40a940dd7"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "b278e460-7cfc-4451-8294-cccc40a940dd7"}, "properties": {"displayName": "Inherit a tag from the subscription", "policyType": "BuiltIn", "mode": "Indexed", "description": "Adds or replaces the specified tag and value from the containing subscription when any resource is created or updated. Existing resources can be remediated by triggering a remediation task.", "metadata": {"category": "Tags", "version": "1.0.0"}, "parameters": {"tagName": {"type": "String", "metadata": {"displayName": "Tag Name", "description": "Name of the tag, such as "environment" \} }}, "policyRule": {"if": {"allOf": [{"field": [concat('tags[', parameters('tagName'), ']')], "notEquals": [subscription().tags[parameters('tagName')]]}, {"value": [subscription().tags[parameters('tagName')]], "notEquals": ""}], "then": {"effect": "modify", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"], "operations": ["addOrReplace", "field": [concat('tags[', parameters('tagName'), ']'), {"value": [subscription().tags[parameters('tagName')]]}] ]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/b27a0cbd-a167-4dfa-ae64-4337be671140"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "b27a0cbd-a167-4dfa-ae64-4337be671140"}, "properties": {"displayName": "Microsoft Managed Control 1234 - Software Usage Managed Control 1234 - Software Usage implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1234"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}], "then": {"effect": "audit"} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/b293f881-361c-47ed-b997-bc4e2296bc0b"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "b293f881-361c-47ed-b997-bc4e2296bc0b"}, "properties": {"displayName": "Microsoft Managed Control 1107 - Content Of Audit Records", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1107"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}], "then": {"effect": "audit"} }, "id": "/providers/Microsoft.Authorization/policyDefinitions/b29ed931-8e21-4779-8458-27916122a904"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "b29ed931-8e21-4779-8458-27916122a904"}, "properties": {"displayName": "Deploy prerequisites to audit Windows web servers that are not using secure communication protocols", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows web servers that are not using secure communication protocols (TLS 1.1 or TLS 1.2). It also
creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```
parameters:
  MinimumTLSVersion:
    type: String
    default: 1.1
    metadata:
      displayName: Minimum TLS version
    allowedValues:
      - 1.1
      - 1.2

condition:
  any:
    - allOf:
        - type: Microsoft.Compute/virtualMachines
        - anyOf:
            - imagePublisher: esri
            - imagePublisher: incredibuild
            - imagePublisher: MicrosoftDynamicsAX
            - imagePublisher: MicrosoftSharepoint
            - imagePublisher: MicrosoftVisualStudio
            - imagePublisher: MicrosoftWindowsDesktop
            - imagePublisher: MicrosoftWindowsServerHPCpack
        - field: Microsoft.Compute/imagePublisher
          notLike: MicrosoftSQLServer
        - anyOf:
            - imagePublisher: MicrosoftWindowsServer
              field: Microsoft.Compute/imageSKU
              notLike: 2008*
        - anyOf:
            - imagePublisher: MicrosoftSQLServer
              field: Microsoft.Compute/imageOffer
              notLike: SQL2008*
        - field: Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash
          equals: [base64(concat('SecureWebServer', parameters('MinimumTLSVersion')))]
    - allOf:
        - field: Microsoft.HybridCompute/machines
          type: Microsoft.HybridCompute/imageOffer
          like: windows*
```

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Show audit results from Windows VMs configurations in "System Audit Policies - Logon-Logoff". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Logon-Logoff". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Microsoft Managed Control 1041 - Least Privilege | Privilege Levels For Code Execution

"Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1041"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}}, "then": {"effect": "audit"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/b3802d79-dd88-4bce-b81d-780218e48280", "type": "Microsoft.Authorization/policyDefinitions", "name": "b3802d79-dd88-4bce-b81d-780218e48280", "properties": {"displayName": "Microsoft Managed Control 1380 - Incident Response Plan", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1380"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}}, "then": {"effect": "audit"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/b4319b7e-ea8d-42ff-8a67-ccd462972827", "type": "Microsoft.Authorization/policyDefinitions", "name": "b4319b7e-ea8d-42ff-8a67-ccd462972827", "properties": {"displayName": "Diagnostic logs in Search services should be enabled", "policyType": "BuiltIn", "mode": "Indexed", "description": "Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised", "metadata": {"version": "2.0.0", "category": "Search"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "requiredRetentionDays": {"type": "String", "metadata": {"displayName": "Required retention (days)", "description": "The required diagnostic logs retention in days"}, "defaultValue": "365"}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Search/searchServices"}, "then": {"effect": {"parameters": {"effect": "AuditIfNotExists"}, "details": {"type": "Microsoft.Insights/diagnosticSettings", "existenceCondition": {"count": {"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.enabled", "equals": "true"}, "anyOf": [{"field": "Microsoft.Insights/diagnosticSettings/logs[*].retentionPolicy.days", "equals": "0"}, {"field": "Microsoft.Insights/diagnosticSettings/logs[*.retentionPolicy.days", "equals": {"parameters": {"requiredRetentionDays": []}}}, {"field": "Microsoft.Insights/diagnosticSettings/logs[*.retentionPolicy.days", "equals": {"parameters": {"requiredRetentionDays": []}}}}]}}, {"field": "Microsoft.Insights/diagnosticSettings/logs[*.retentionPolicy.days", "equals": {"parameters": {"requiredRetentionDays": []}}}, {"field": "Microsoft.Insights/diagnosticSettings/logs[*.retentionPolicy.days", "equals": {"parameters": {"requiredRetentionDays": []}}}}]}}, {"field": "Microsoft.Insights/diagnosticSettings/logs[*.retentionPolicy.days", "equals": {"parameters": {"requiredRetentionDays": []}}}, {"field": "Microsoft.Insights/diagnosticSettings/logs[*.retentionPolicy.days", "equals": {"parameters": {"requiredRetentionDays": []}}}}]}}}}}}}
Open Source Used In SDWan 20.6.1

Managed Control 1172 - Internal System Connections

Microsoft implements this Security Assessment and Authorization control, metadata:

Microsoft Managed Control 1672 - Flaw Remediation | Central Management

Microsoft implements this System and Information Integrity control, metadata:

Microsoft Managed Control 1131 - Protection Of Audit Information

Microsoft implements this Audit and Accountability control, metadata:

[Deprecated]: Audit Web Sockets state for an API App

A security contact phone number should be provided for your...
subscription","policyType":"BuiltIn","mode":"All","description":"Enter a phone number to receive notifications when Azure Security Center detects compromised resources","metadata":{"version":"1.0.0","category":"Security Center"},"parameters":{
"effect":{
"type":"String","metadata":{
"displayName":"Effect","description":"Enable or disable the execution of the policy"},
"allowedValues":["AuditIfNotExists","Disabled"],
"defaultValue":"AuditIfNotExists"}},
"policyRule":{
"if":{
"field":
"type","equals":"Microsoft.Resources/subscriptions","then":{
"effect":
[parameters("effect")],
"details":{
"type":"Microsoft.Security/securityContacts","existenceCondition":{
"field":"Microsoft.Security/securityContacts/phone","notEquals":""}
}}}}},
"id":"/providers/Microsoft.Authorization/policyDefinitions/b4d66858-c922-44e3-9566-5cdb7a7be744","type":"Microsoft.Authorization/policyDefinitions","name":"b4d66858-c922-44e3-9566-5cdb7a7be744"},

"properties":{
"displayName":"Microsoft Managed Control 1286 - Telecommunications Services | Provider Contingency Plan","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Contingency Planning control","metadata":{
"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1286"},
"policyRule":{
"if":{
"allOf":
[{
"field":
"type","in":
["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},
"value":
true,
"equals":false
]},
"then":{
"effect":
["audit"]
}}},
"id":"/providers/Microsoft.Authorization/policyDefinitions/b4f9b47a-2116-4e6f-88db-4edbf22753f1","type":"Microsoft.Authorization/policyDefinitions","name":"b4f9b47a-2116-4e6f-88db-4edbf22753f1"},

"properties":{
"displayName":"Public network access should be disabled for PostgreSQL servers","policyType":"BuiltIn","mode":"Indexed","description":"This policy audits PostgreSQL servers in your environment with public network access enabled. For more details, visit https://go.microsoft.com/fwlink/?linkid=2120015."},

"parameters":{
"effect":{
"type":"String","metadata":{
"displayName":"Effect","description":"Enable or disable the execution of the policy"},
"allowedValues":["Audit","Disabled"],
"defaultValue":"Audit"}},
"policyRule":{
"if":{
"allOf":
[{
"field":
"type","equals":"Microsoft.DBforPostgreSQL/servers"},
"field":
"Microsoft.DBforPostgreSQL/servers/publicNetworkAccess","notEquals":"Disabled"
]},
"then":{
"effect":
[parameters("effect")]
}}},
"id":"/providers/Microsoft.Authorization/policyDefinitions/b52376f7-9612-48a1-81cd-1f6efb61032c","type":"Microsoft.Authorization/policyDefinitions","name":"b52376f7-9612-48a1-81cd-1f6efb61032c"},

"properties":{
"displayName":"Service Fabric clusters should only use Azure Active Directory for client authentication","policyType":"BuiltIn","mode":"Indexed","description":"Audit usage of client authentication only via Azure Active Directory in Service Fabric"},

"parameters":{
"effect":{
"type":"String","metadata":{
"displayName":"Effect","description":"The effect determines what happens when the policy rule is evaluated to match"},
"allowedValues":["Audit","Deny","Disabled"],
"defaultValue":"Audit"}},
"policyRule":{
"if":{
"allOf":
[{
"field":
"type","equals":"Microsoft.ServiceFabric/clusters"},
"anyOf":
[{
"field":
"Microsoft.ServiceFabric/clusters/azureActiveDirectory.tenantId","exists":false},
"field":
"Microsoft.ServiceFabric/clusters/azureActiveDirectory.tenantId","equals":null
]},
"then":{
"effect":
[parameters("effect")]
}}},
"id":"/providers/Microsoft.Authorization/policyDefinitions/b54ed75b-3e1a-44ac-a333-05ba39b9ff00","type":"Microsoft.Authorization/policyDefinitions","name":"b54ed75b-3e1a-44ac-a333-05ba39b9ff00"},

"properties":{
"displayName":"Deploy Advanced Threat Protection for Cosmos DB Accounts","policyType":"BuiltIn","mode":"Indexed","description":"This
policy enables Advanced Threat Protection across Cosmos DB
accounts.","metadata":{"version":"1.0.0","category":"Cosmos
DB"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["DeployIfNotExists","Disabled"],"defaultValue":"DeployIfNotExists"}},"policyRule":{"
if":{"field":"type","equals":"Microsoft.DocumentDB/databaseAccounts"},"then":{"effect":"[parameters(''effect'')]","
details":{"type":"Microsoft.Security/advancedThreatProtectionSettings","name":"current","existenceCondition":{"fi
eld":"Microsoft.Security/advancedThreatProtectionSettings/isEnabled","equals":"true"},"roleDefinitionIds":["/provi
ders/Microsoft.Authorization/roleDefinitions/fb1c8493-542b-48eb-b624b4c8fea62acd"],"deployment":{"properties":{"mode":"incremental","template":{"$schema":"http://schema.manage
ment.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"cosmosDbAccountName":{"type":"strin
g"}},"resources":[{"apiVersion":"2019-0101","type":"Microsoft.DocumentDB/databaseAccounts/providers/advancedThreatProtectionSettings","name":"[conc
at(parameters(''cosmosDbAccountName''),
''/Microsoft.Security/current'')]","properties":{"isEnabled":true}}]},"parameters":{"cosmosDbAccountName":{"val
ue":"[field(''name'')]"}}}}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/b5f04e03-92a3-4b099410-2cc5e5047656","type":"Microsoft.Authorization/policyDefinitions","name":"b5f04e03-92a3-4b09-94102cc5e5047656"},{"properties":{"displayName":"Diagnostic
logs in App Services should be enabled","policyType":"BuiltIn","mode":"All","description":"Audit
enabling of diagnostic logs on the app. This enables you to recreate activity
trails for investigation purposes if a security incident occurs or your network
is compromised","metadata":{"version":"1.0.0","category":"App
Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":
{"allOf":[{"field":"type","equals":"Microsoft.Web/sites"},{"field":"kind","notContains":"functionapp"}]},"then":{"
effect":"[parameters(''effect'')]","details":{"type":"Microsoft.Web/sites/config","existenceCondition":{"allOf":[{"fiel
d":"Microsoft.Web/sites/config/detailedErrorLoggingEnabled","equals":"true"},{"field":"Microsoft.Web/sites/confi
g/httpLoggingEnabled","equals":"true"},{"field":"Microsoft.Web/sites/config/requestTracingEnabled","equals":"tru
e"}]}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/b607c5de-e7d9-4eee-9e5c83f1bcee4fa0","type":"Microsoft.Authorization/policyDefinitions","name":"b607c5de-e7d9-4eee-9e5c83f1bcee4fa0"},{"properties":{"displayName":"Microsoft
Managed Control 1419 - Nonlocal Maintenance | Cryptographic
Protection","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Maintenance control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1419"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/b6747bf9-2b97-45b8-b1623c8becb9937d","type":"Microsoft.Authorization/policyDefinitions","name":"b6747bf9-2b97-45b8-b1623c8becb9937d"},{"properties":{"displayName":"Microsoft
Managed Control 1301 - Identification And Authentication (Org. Users) | Network
Access To Privileged Accounts","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Identification and Authentication
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1301"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso

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Managed Control 1568 - Acquisition
Process", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1568"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/b6a8e0cc-ac23-468b-abe4-a8a1cc6d7a08", "type": "Microsoft.Authorization/policyDefinitions", "name": "b6a8e0cc-ac23-468b-abe4-a8a1cc6d7a08"}, {"properties": {"displayName": "Microsoft Managed Control 1568 - Acquisition Process", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1568"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/b6a8e0cc-ac23-468b-abe4-a8a1cc6d7a08"}, {"properties": {"displayName": "Network Watcher should be enabled", "policyType": "BuiltIn", "mode": "All", "description": "Network Watcher is a regional service that enables you to monitor and diagnose conditions at a network scenario level in, to, and from Azure. Scenario level monitoring enables you to diagnose problems at an end to end network level view. Network diagnostic and visualization tools available with Network Watcher help you understand, diagnose, and gain insights to your network in Azure.", "metadata": {"version": "1.0.0", "category": "Network"}, "parameters": {"listOfLocations": {"type": "Array", "metadata": {"displayName": "Locations", "description": "Audit if Network Watcher is not enabled for region(s).", "strongType": "location"}}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Network/networkWatchers", "resourceGroupName": "NetworkWatcherRG", "existenceCondition": {"field": "location", "in": [parameters('listOfLocations')]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/b6e2945c-0b7b-40f5-9233-7a5323b5c6c6", "type": "Microsoft.Authorization/policyDefinitions", "name": "b6e2945c-0b7b-40f5-9233-7a5323b5c6c6"}, {"properties": {"displayName": "Microsoft Managed Control 1608 - Supply Chain Protection"}, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1608"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/b73b7b3b-677c-4a2a-b949-ad4dc4adc89f", "type": "Microsoft.Authorization/policyDefinitions", "name": "b73b7b3b-677c-4a2a-b949-ad4dc4adc89f"}, {"properties": {"displayName": "Microsoft Managed Control 1401 - Controlled Maintenance"}, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1401"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/b78ee928-e3c1-4569-ad97-9f8c4b629847", "type": "Microsoft.Authorization/policyDefinitions", "name": "b78ee928-e3c1-4569-ad97-9f8c4b629847"}, {"properties": {"displayName": "API
App should only be accessible over HTTPS","policyType":"BuiltIn","mode":"Indexed","description":"Use
of HTTPS ensures server/service authentication and protects data in transit
from network layer eavesdropping attacks.","metadata":{"version":"1.0.0","category":"App
Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["Audit","Disabled"],"defaultValue":"Audit"}},"policyRule":{"if":{"allOf":[{"field":"typ
e","equals":"Microsoft.Web/sites"},{"field":"kind","like":"*api"},{"field":"Microsoft.Web/sites/httpsOnly","equals"
:"false"}]},"then":{"effect":"[parameters(''effect'')]"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/
b7ddfbdc-1260-477d-91fd-98bd9be789a6","type":"Microsoft.Authorization/policyDefinitions","name":"b7ddfbdc1260-477d-91fd-98bd9be789a6"},{"properties":{"displayName":"Deploy
prerequisites to audit Windows VMs in which the Administrators group does
not contain only the specified members","policyType":"BuiltIn","mode":"Indexed","description":"This
policy creates a Guest Configuration assignment to audit Windows virtual machines
in which the Administrators group does not contain only the specified members.
It also creates a system-assigned managed identity and deploys the VM extension
for Guest Configuration. This policy should only be used along with its corresponding
audit policy in an initiative. For more information on Guest Configuration
policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.1.0","category":"Guest
Configuration","requiredProviders":["Microsoft.GuestConfiguration"]},"parameters":{"Members":{"type":"String",
"metadata":{"displayName":"Members","description":"A
semicolon-separated list of all the expected members of the Administrators
local group. Ex: Administrator; myUser1;
myUser2"}}},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines
"},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","M
icrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]},
{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"field":"Microsoft.
Compute/imageSKU","notLike":"2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"Mic
rosoftSQLServer"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"allOf":[{"field":"Micros
ageOffer","equals":"renderingwindows2016"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-securityinc"},{"field":"Microsoft.Compute/imageOffer","like":"cis-windows-server201*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"pivotal"},{"field":"Microsoft.Compute/
imageOffer","like":"bosh-windowsserver*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructureservices"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Comp
ute/virtualMachines/osProfile.windowsConfiguration","exists":"true"},{"field":"Microsoft.Compute/virtualMachine
s/storageProfile.osDisk.osType","like":"Windows*"}]},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists
":"false"},{"allOf":[{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"},{"field":"Microsoft.Compute/im
ageOffer","notLike":"SQL2008*"}]}]}]}]}]},{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machin
es"},{"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}]}]},"then":{"effect":"deployIfNotExists"
,"details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab8820f7382dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"AdministratorsGr
oupMembers","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/param

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Show audit results from Windows VMs configurations in "Security Options - Accounts". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Accounts". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Diagnostic Settings for Logic Apps to Log Analytics workspace

- **Policy Type**: BuiltIn, mode: Indexed, description: Deploys the diagnostic settings for Logic Apps to stream to a regional Log Analytics workspace when any Logic Apps which is missing this diagnostic settings is created or updated.

- **Effect**: DeployIfNotExists or Disabled

- **Profile Name**: setbypolicy_logAnalytics

- **Log Analytics workspace**: Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment’s principal ID, strongType: omsWorkspace, assignPermissions: true

- **Metrics Enabled**: True or False

- **Logs Enabled**: True or False
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1. Managed Control 1257 - Contingency Training
   - Policy Type: Static
   - Mode: Indexed
   - Description: Microsoft implements this Contingency Planning control.

2. Managed Control 1186 - Configuration Change
   - Policy Type: Static
   - Mode: Indexed
   - Description: Microsoft implements this Configuration Management control.

3. Managed Control 1447 - Physical Access
   - Policy Type: Static
   - Mode: Indexed
   - Description: Microsoft implements this Physical and Environmental Protection control.

4. Managed Control 1625 - Boundary Protection | Access Points
   - Policy Type: Static
   - Mode: Indexed
   - Description: Microsoft implements this System and Communications Protection control.

5. Managed Control 1610 - Development Process, Standards, And Tools
   - Policy Type: Static
   - Mode: Indexed
   - Description: Microsoft implements this System and Services Acquisition control.
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/b9f3fb54-4222-46a1-a3084874061f8491","type":"Microsoft.Authorization/policyDefinitions","name":"b9f3fb54-4222-46a1-a3084874061f8491"},{"properties":{"displayName":"[Preview]:
Show audit results from Windows VMs configurations in ''Security Options Recovery console''","policyType":"BuiltIn","mode":"All","description":"This
policy should only be used along with its corresponding deploy policy in an
initiative. This definition allows Azure Policy to process the results of
auditing Windows virtual machines with non-compliant settings in Group Policy
category: ''Security Options - Recovery console''. For more information on
Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.0.0preview","category":"Guest
Configuration","preview":true},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Comput
e/virtualMachines"},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","Microsoft
DynamicsAX","MicrosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsS
erverHPCPack"]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"
field":"Microsoft.Compute/imageSKU","notLike":"2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublish
er","equals":"MicrosoftSQLServer"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"allOf"
ageOffer","equals":"renderingwindows2016"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-securityinc"},{"field":"Microsoft.Compute/imageOffer","like":"cis-windows-server201*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"pivotal"},{"field":"Microsoft.Compute/
imageOffer","like":"bosh-windowsserver*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructureservices"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Comp
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":"false"},{"allOf":[{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"},{"field":"Microsoft.Compute/im
ageOffer","notLike":"SQL2008*"}]}]}]}]}]},{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machin
es"},{"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}]}]},"then":{"effect":"auditIfNotExists","
details":{"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"AzureBaseline_Security
OptionsRecoveryconsole","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssign
ments/complianceStatus","equals":"Compliant"}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/ba
12366f-f9a6-42b8-9d98-157d0b1a837b","type":"Microsoft.Authorization/policyDefinitions","name":"ba12366ff9a6-42b8-9d98-157d0b1a837b"},{"properties":{"displayName":"Microsoft
Managed Control 1606 - Developer Security Testing And Evaluation | Threat
And Vulnerability Analyses","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this System and Services Acquisition
control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1606"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat

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ion/policyDefinitions/baa8a9a4-5bbe-4c72-98f6-a3a47ae2b1ca","type":"Microsoft.Authorization/policyDefinitions","name":"baa8a9a4-5bbe-4c72-98f6-a3a47ae2b1ca"},{"properties":{"displayName":"Microsoft Managed Control 1726 - Information Handling And Retention","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Information Integrity control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"policyRule ":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/baff1279-05e0-4463-9a70-8ba5de4c7aa4","type":"Microsoft.Authorization/policyDefinitions","name":"baff1279-05e0-4463-9a70-8ba5de4c7aa4"},{"properties":{"displayName":"Microsoft Managed Control 1166 - Continuous Monitoring","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Security Assessment and Authorization control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"policyRule ":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/bb02733d-3cc5-4bb0-a6cd-695ba2c2272e","type":"Microsoft.Authorization/policyDefinitions","name":"bb02733d-3cc5-4bb0-a6cd-695ba2c2272e"},{"properties":{"displayName":"Microsoft Managed Control 1188 - Configuration Change Control","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"policyRule ":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/bb20548a-c926-4e4d-855c-bcdd6fa95e","type":"Microsoft.Authorization/policyDefinitions","name":"bb20548a-c926-4e4d-855c-bcdd6fa95e"},{"properties":{"displayName":"[Preview]: Deploy prerequisites to audit Windows VMs configurations in ''Security Options - Microsoft Network Client''","policyType":"BuiltIn","mode":"Indexed","description":"This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: ''Security Options - Microsoft Network Client''. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more
information on Guest Configuration policies, please visit https://aka.ms/gcpol.

```
"type": "Microsoft.NETworkClientDigitallySignCommunicationsAlways",
"metadata": {
  "displayName": "Microsoft network client: Digitally sign communications (always)",
  "description": "Specifies whether packet signing is required by the SMB client component.",
  "defaultValue": "1"
},
"Microsoft.NETworkClientSendUnencryptedPasswordToThirdpartySMBServers": {
  "type": "String",
  "metadata": {
    "displayName": "Microsoft network client: Send unencrypted password to third-party SMB servers",
    "description": "Specifies whether the SMB redirector will send plaintext passwords during authentication to third-party SMB servers that do not support password encryption. It is recommended that you disable this policy setting unless there is a strong business case to enable it.",
    "defaultValue": "0"
},
"Microsoft.NETworkServerAmountOfIdleTimeRequiredBeforeSuspendingSession": {
  "type": "String",
  "metadata": {
    "displayName": "Microsoft network server: Amount of idle time required before suspending session",
    "description": "Specifies the amount of continuous idle time that must pass in an SMB session before the session is suspended because of inactivity. The format of the value is two integers separated by a comma, denoting an inclusive range.",
    "defaultValue": "1,15"
},
"Microsoft.NETworkServerDigitallySignCommunicationsAlways": {
  "type": "String",
  "metadata": {
    "displayName": "Microsoft network server: Digitally sign communications (always)",
    "description": "Specifies whether packet signing is required by the SMB server component.",
    "defaultValue": "1"
},
"Microsoft.NETworkServerDisconnectClientsWhenLogonHoursExpire": {
  "type": "String",
  "metadata": {
    "displayName": "Microsoft network server: Disconnect clients when logon hours expire",
    "description": "Specifies whether to disconnect users who are connected to the local computer outside their user account's valid logon hours. This setting affects the Server Message Block (SMB) component. If you enable this policy setting you should also enable "Network security: Force logoff when logon hours expire".",
    "defaultValue": "1"
}
```

"policyRule": {
  "if": {
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      {
        "allOf": [
          {
            "field": "type",
            "equals": "Microsoft.Compute/virtualMachines"
          },
          {
            "anyOf": [
              {
                "field": "Microsoft.Compute/imagePublisher",
                "notLike": "2008*
            },
            {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*
            }
          ],
          {"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-dsvm",
            "field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows",
            "field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows2016"}
        ],
        "allOf": [
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          },
          {"field": "Microsoft.Compute/imagePublisher", "equals": "batch",
            "field": "Microsoft.Compute/imageOffer", "equals": "rendering-windows2016"}
        ],
        {"field": "Microsoft.Compute/imagePublisher", "equals": "center-for-internet-security-inc",
          "field": "Microsoft.Compute/imageOffer", "like": "cis-windows-server-201*"
        }
      }
    ]
  }
}

network client: Send unencrypted password to third-party SMB servers; ExpectedValue, value: [parameters("MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySMBServers")],
{name: "Microsoft network server: Amount of idle time required before suspending session; ExpectedValue, value: [parameters("MicrosoftNetworkServerAmountOfIdleTimeRequiredBeforeSuspendingSession")],
{name: "Microsoft network server: Digitally sign communications
(always); ExpectedValue, value: [parameters("MicrosoftNetworkServerDigitallySignCommunicationsAlways")]

{name: "Microsoft network server: Disconnect clients when logon hours expire; ExpectedValue, value: [parameters("MicrosoftNetworkServerDisconnectClientsWhenLogonHoursExpire")]

toLowerCase("Microsoft.Compute/virtualMachines"), "apiVersion": "2018-11-20",
type: "Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments",
name: [concat(parameters("vmName"), "/Microsoft.GuestConfiguration/parameters("configurationName")]),
"location": [parameters("location")],
"properties": {"guestConfiguration": {"name": [parameters("configurationName")],
"version": "1.*", configurationParameter: [{"name": "Microsoft network client: Digitally sign communications
(always); ExpectedValue, value: [parameters("MicrosoftNetworkClientDigitallySignCommunicationsAlways")]

{name: "Microsoft network client: Send unencrypted password to third-party SMB servers; ExpectedValue, value: [parameters("MicrosoftNetworkClientSendUnencryptedPasswordToThirdpartySMBServers")]

{name: "Microsoft network server: Amount of idle time required before suspending session; ExpectedValue, value: [parameters("MicrosoftNetworkServerAmountOfIdleTimeRequiredBeforeSuspendingSession")]

{name: "Microsoft network server: Digitally sign communications
(always); ExpectedValue, value: [parameters("MicrosoftNetworkServerDigitallySignCommunicationsAlways")]

{name: "Microsoft network server: Disconnect clients when logon hours expire; ExpectedValue, value: [parameters("MicrosoftNetworkServerDisconnectClientsWhenLogonHoursExpire")]

toLowerCase("Microsoft.Compute/virtualMachines"), "apiVersion": "2019-07-01",
name: [parameters("vmName")],
location: [parameters("location")],
"condition": [equals(toLowerCase(parameters("type")),
name: [concat(parameters("vmName"), "/AzurePolicyforWindows")],
type: "Microsoft.Compute/virtualMachines/extensions", location: [parameters("location")],
"properties": {"publisher": "Microsoft.GuestConfiguration",
"type": "ConfigurationforWindows", typeHandlerVersion": "1.1",
"autoUpgradeMinorVersion": true, settings": [],
"protectedSettings": [],
"dependsOn": ["[concat(Microsoft.Compute/virtualMachines/parameters("vmName"), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters("configurationName")])"]]

"id": "/providers/Microsoft.Authorization/policyDefinitions/bbcdd8fa-b600-4ee3-85b8-d184e3339652",
type: "Microsoft.Authorization/policyDefinitions",
name: "bbcdd8fa-b600-4ee3-85b8-d184e3339652",
"properties": {"displayName": "[Deprecated]: Audit API Applications that are not using latest supported Python Framework", "policyType": "BuiltIn", "mode": "All", description": "Use
the latest supported Python version for the latest security classes. Using older classes and types can make your application vulnerable.

Managed Control 1194 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes

Managed Control 1095 - Role-Based Security Training

Show audit results from Windows VMs configurations in "System Audit Policies - Account Logon". This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: 'System Audit Policies - Account Logon'. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
addressed to other destinations. IP forwarding is rarely required (e.g., when using the VM as a network virtual appliance), and therefore, this should be reviewed by the network security team.

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**Advanced Threat Protection types should be set to "All" in SQL managed instance Advanced Data Security settings**

It is recommended to enable all Advanced Threat Protection types on your SQL servers. Enabling all types protects against SQL injection, database vulnerabilities, and any other anomalous activities.

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**Show audit results from Windows VMs in which the Administrators group contains any of the specified members**

This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines in which the Administrators group contains any of the specified members. For more information on Guest Configuration policies, please visit [https://aka.ms/gcpol](https://aka.ms/gcpol).
Audit Web Applications that are not using latest supported Java Framework, policyType: "BuiltIn", mode: "All", description: "Use the latest supported Java version for the latest security classes. Using older classes and types can make your application vulnerable.", "metadata": {"version": "1.0.0-deprecated", "category": "Security Center"}, parameters: {"effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}}}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "policyRule": {"if": {"allof": ["field": "type", "equals": "microsoft.Web/sites"], "anyof": ["field": "kind", "equals": "app"], "field": "kind", "equals": "WebApp"}, "field": "kind", "equals": "app,linux"}, "field": "kind", "equals": "app,linux,container"}], "then": {"effect": "auditIfNotExists"}, "details": {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "AdministratorsGroupsToExclude", "existenceCondition": {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant"}, "id": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1360"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/be0a7681-bed4-48dc-9ff3-f0171ee170b6", "type": "Microsoft.Authorization/policyDefinitions", "name": "be0a7681-bed4-48dc-9ff3-f0171ee170b6"}, parameters: {"NotAvailableMachineState": "WindowsDefenderExploitGuard1;NotAvailableMachineState"}}}, "properties": {"displayName": "Microsoft Managed Control 1360 - Incident Handling", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.1.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1360"}, "policyRule": {"if": {"allof": ["field": "type", "equals": "microsoft.Resources/subscriptions"], "anyof": ["field": "kind", "equals": "subscri"], "field": "kind", "equals": "subscription"}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/be5b05e7-0b82-4ebc-9eda-25e447b1a41e", "type": "Microsoft.Authorization/policyDefinitions", "name": "be5b05e7-0b82-4ebc-9eda-25e447b1a41e"}, parameters: {"NotAvailableMachineState": "WindowsDefenderExploitGuard1;NotAvailableMachineState"}}}, "properties": {"displayName": "Audit Windows VMs on which Windows Defender Exploit Guard is not enabled", "policyType": "BuiltIn", "mode": "Indexed", "description": "Windows Defender Exploit Guard helps protect against malware that uses exploits to infect devices and spread. Exploit Guard protection consists of a number of mitigations that can be applied to either the operating system or individual apps. This policy requires the Azure Policy for Windows extension. For details, visit https://aks.ms/gcpol."}, "metadata": {"category": "Guest Configuration", "version": "1.1.0-preview", "preview": true, "requiredProviders": ["Microsoft.GuestConfiguration"], "guestConfiguration": {"name": "Windows Defender Exploit Guard", "version": "1.0", "configurationParameter": {"NotAvailableMachineState": "Windows Defender Exploit Guard1;NotAvailableMachineState"}}}, "parameters": {"NotAvailableMachineState": "Windows Defender Exploit Guard1;NotAvailableMachineState"}}}},
Status if Windows Defender is not available on machine", "description": "Windows Defender Exploit Guard is only available starting with Windows 10/Windows Server with update 1709. Setting this value to "Non-Compliant" shows machines with older versions on which Windows Defender Exploit Guard is not available (such as Windows Server 2012 R2) as non-compliant. Setting this value to "Compliant" shows these machines as compliant.", "allowedValues": ["Compliant", "Non-Compliant"], "defaultValue": "Non-Compliant"}, "effect": {"type": "String", "metadata": {"displayName": "[Preview]: Effect", "description": "Enable or disable the execution of this policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists" }, "policyRule": {"if": {"anyOf": [{"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, {"anyOf": [{"field": "Microsoft.Compute/imagePublisher", "in": ["esri", "incredibuild", "MicrosoftDynamicsAX", "MicrosoftSharepoint", "MicrosoftVisualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack"], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-dsvm"}, {"field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"}, {"field": "Microsoft.Compute/imageOffer", "in": ["standard-data-science-vm", "windows-data-science-vm"]}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "batch"}, {"field": "Microsoft.Compute/imageOffer", "equals": "rendering-windows2016"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "center-for-internet-security-inc"}, {"field": "Microsoft.Compute/imageOffer", "like": "cis-windows-server-201*"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"}, {"field": "Microsoft.Compute/imageOffer", "like": "bosh-windows-server*"}], "allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"}, {"field": "Microsoft.Compute/imageOffer", "like": "ad*"}], "allOf": [{"anyOf": [{"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": true}, {"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "like": "Windows*"}], "anyOf": [{"field": "Microsoft.Compute/imageSKU", "exists": false}], "allOf": [{"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}], {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}]}]}], "allOf": [{"field": "type", "equals": "Microsoft.HybridCompute/machines"}, {"field": "Microsoft.HybridCompute/imageOffer", "like": "windows*"}], "then": {"effect": ["parameters('effect')"], "details": {"type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "WindowsDefenderExploitGuard", "existenceCondition": "allOf": [{"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus", "equals": "Compliant"}, {"field": "Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHash", "equals": "[base64(concat('"WindowsDefenderExploitGuard".WindowsDefenderExploitGuard1;NotAvailableMachineState", ",=" parameters(NotAvailableMachineState)')))]]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/bbed48b13-6647-468e-aa2f-1af1d3f4dd40", "type": "Microsoft.Authorization/policyDefinitions", "name": "bed48b13-6647-468e-aa2f-1af1d3f4dd40", "properties": {"displayName": "Deploy Diagnostic Settings for Key Vault to Log Analytics workspace", "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploys the diagnostic settings for Key Vault to stream to a regional Log Analytics workspace when any Key Vault which is missing this diagnostic settings is created or updated.", "metadata": {"version": "1.0.0", "category": "Monitoring"}, "parameters": {"effect": {"type": "String", "metadata": "[displayName": "Effect", "description": "Enable or disable the execution of the"}}}
policy"}, "allowedValues": ["DeployIfNotExists", "Disabled"], "defaultValue": "DeployIfNotExists"}, "profileName": {"type": "String", "metadata": {"displayName": "Profile name", "description": "The diagnostic settings profile name"}, "defaultValue": "setbypolicy_logAnalytics"}, "logAnalytics": {"type": "String", "metadata": {"displayName": "Log Analytics workspace", "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment's principal ID."}, "strongType": "omsWorkspace", "assignPermissions": true}], "metricsEnabled": {"type": "String", "metadata": {"displayName": "Enable metrics", "description": "Whether to enable metrics stream to the Log Analytics workspace - True or False"}, "allowedValues": ["True", "False"], "defaultValue": "False"}, "logsEnabled": {"type": "String", "metadata": {"displayName": "Enable logs", "description": "Whether to enable logs stream to the Log Analytics workspace - True or False"}, "allowedValues": ["True", "False"], "defaultValue": "True"}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.KeyVault/vaults"}, "then": {"effect": "{parameters(''effect'')", "details": {"type": "Microsoft.Insights/diagnosticSettings", "name": "[parameters(''profileName'')]", "existenceCondition": {"allOf": [{"field": "Microsoft.Insights/diagnosticSettings/logs.enabled", "equals": "[parameters(''logsEnabled'')]", "field": "Microsoft.Insights/diagnosticSettings/metrics.enabled", "equals": "[parameters(''metricsEnabled'')]"}], "roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/749f88d5-cbae-40b8-bcfc-e573dce772fa", "/providers/microsoft.authorization/roleDefinitions/92aa08da-9dab-42b6-94a3-d43ce8d16293"]}, "deployment": {"properties": {"mode": "incremental", "template": {"$schema": "http://schema.management.azure.com/schemas/2015-01-deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": {"resourceName": {"type": "string"}, "location": {"type": "string"}, "logAnalytics": {"type": "string"}, "metricsEnabled": {"type": "string"}, "logsEnabled": {"type": "string"}, "profileName": {"type": "string"}}, "variables": {}, "resources": [["Microsoft.KeyVault/vaults/providers/diagnosticSettings", {"apiVersion": "2017-05-01-preview", "name": "[concat(parameters(''resourceName''), "/", "Microsoft.Insights/", parameters(''profileName''))]", "location": "[parameters(''location'')]", "dependsOn": [], "properties": {"workspaceId": "parameters(''logAnalytics'')", "metrics": [{"category": "AllMetrics", "enabled": "parameters(''metricsEnabled'')"}], "retentionPolicy": {"enabled": false, "days": 0}], "logs": [{"category": "AuditEvent", "enabled": "parameters(''logsEnabled'')"}], "variables": {"workspaceId": "parameters(''logAnalytics'')", "metrics": ["parameters(''metricsEnabled'')"]}], "outputs": {"name": "[field(''location'')]", "resourceName": "[value: [field(''name'')]]", "logAnalytics": "[value: parameters(''logAnalytics'')]", "metricsEnabled": "[value: parameters(''metricsEnabled'')]", "logsEnabled": "[value: parameters(''logsEnabled'')]", "profileName": "[value: parameters(''profileName'')]", "id": "/providers/Microsoft.Authorization/policyDefinitions/bef3f64c-5290-43b7-85b0-9b254ee4c477", "type": "Microsoft.Authorization/policyDefinitions", "name": "bef3f64c-5290-43b7-85b0-9b254ee4c477"}, {"properties": {"displayName": "Microsoft Managed Control 1152 - System Interconnections", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1152"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/beff0a0c-7e67-40b2-b1ca-
Geo-redundant storage should be enabled for Storage Accounts. This policy audits any Storage Account with geo-redundant storage not enabled.

Managed Control 1590 - External Information System Services | Risk Assessments / Organizational Approvals

Managed Control 1446 - Physical And Environmental Protection Policy And Procedures

Deploy prerequisites to audit Windows VMs configurations in "System Audit Policies - Logon-Logoff". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Logon-Logoff". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
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Managed Control 1629 - Boundary Protection | External Telecommunications Services

Managed Control 1004 - Account Management

[Deprecated]: Allow resource creation only in Asia data centers

Deploy prerequisites to audit Windows VMs configurations in "System Audit Policies - Account Logon"

This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Account Logon". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol

Microsoft

Managed Control 1629 - Boundary Protection | External Telecommunications Services

Managed Control 1004 - Account Management

[Deprecated]: Allow resource creation only in Asia data centers

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Microsoft
Audit Credential Validation: Specifies whether audit events are generated when credentials are submitted for a user account logon request. This setting is especially useful for monitoring unsuccessful attempts, to find brute-force attacks, account enumeration, and potential account compromise events on domain controllers.

allowedValues: ["No Auditing", "Success", "Failure", "Success and Failure"], defaultValues: "Success and Failure"

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parameters("configurationName")]]}, "location":[parameters("location")], "properties":{"guestConfiguration":{"name":parameters("configurationName")}, "version":"1.*", "configurationParameter":[{"name":"Audit Credential Validation;ExpectedValue", "value":parameters("AuditCredentialValidation")}]}, "condition":[equals(toLower(parameters("type"))), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion":"2018-11-20", "type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", "name":[concat(parameters("vmName"), "/Microsoft.GuestConfiguration/", parameters("configurationName")]), "location":[parameters("location")], "properties":{"guestConfiguration":{"name":parameters("configurationName")}, "version":"1.*", "configurationParameter":[{"name":"Audit Credential Validation;ExpectedValue", "value":parameters("AuditCredentialValidation")}]}, "condition":[equals(toLower(parameters("type"))), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion":"2019-07-01", "type":"Microsoft.Compute/virtualMachines", "identity":{"type":SystemAssigned"}, "name":parameters("vmName")], "location":[parameters("location")], "condition":[equals(toLower(parameters("type"))), toLower("Microsoft.Compute/virtualMachines"))], "apiVersion":"2015-05-01-preview", "name":[concat(parameters("vmName"), "/AzurePolicyforWindows")], "type":Microsoft.Compute/virtualMachines/extensions", "location":[parameters("location")], "properties":{"publisher":Microsoft.GuestConfiguration", "type":ConfigurationforWindows", "typeHandlerVersion":"1.1", "autoUpgradeMinorVersion":true, "settings":{}, "protectedSettings":{}}, "dependsOn":[[concat(Microsoft.Compute/virtualMachines/parameters("vmName"), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters("configurationName"))), ]}, "id":"/providers/Microsoft.Authorization/policyDefinitions/c1e289c0-ffad-475d-a924-adc058765d65", "type":"Microsoft.Authorization/policyDefinitions", "name":c1e289c0-ffad-475d-a924-adc058765d65}], "properties":{"displayName":Microsoft Managed Control 1503 - Information Security Architecture"}, "policyType":Static", "mode":Indexed", "description":Microsoft implements this Planning control", "metadata":{"version":1.1.0", "category":Regulatory Compliance", "additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1503"}, "policyRule":{"if":["allOf":[]], "then":{"effect":audit"})), "id":/providers/Microsoft.Authorization/policyDefinitions/c1fa9c2f-d439-4ab9-8b83-81fb193481d", "type":"Microsoft.Authorization/policyDefinitions", "name":c1fa9c2f-d439-4ab9-8b83-81fb193481d], "properties":{"displayName":Deploy prerequisites to audit Windows VMs that are not set to the specified time zone", "policyType":BuiltIn", "mode":Indexed", "description":This policy creates a Guest Configuration assignment to audit Windows virtual machines that are not set to the specified time zone. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata":{"version":1.1.0", "category":Guest Configuration", "requiredProviders":[Microsoft.GuestConfiguration"], "parameters":{"TimeZone":String"}, "metadata":Time zone", "description":The expected time zone"}, "allowedValues":[(UTC-12:00) International Date Line West", (UTC-11:00) Coordinated Universal Time-11", (UTC-10:00)
"https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#", "contentVersion": "1.0.0.0", "parameters": { "vmName": { "type": "string" }, "location": { "type": "string" }, "configurationName": { "type": "string" }, "TimeZone": { "type": "string" } }, "resources": [ { "condition": [ "equals(toLower(parameters(type))", "Microsoft.HybridCompute/machines" ) ] }, { "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": [ concat(parameters("vmName"), "/Microsoft.GuestConfiguration/" ), parameters("configurationName") ] }, { "location": [ parameters("location") ], "properties": { "guestConfiguration": [ "name": [ parameters("configurationName") ], "version": "1.*", "configurationParameter": [ "\[name\]: [WindowsTimeZone1;TimeZone", "value": [parameters("TimeZone") ] ] ] } ] }, { "condition": [ "equals(toLower(parameters(type))", "Microsoft.GuestConfiguration/" ), parameters("configurationName") ] }, { "location": [ parameters("location") ], "properties": { "guestConfiguration": [ "name": [ parameters("configurationName") ], "version": "1.*", "configurationParameter": [ "\[name\]: [WindowsTimeZone1;TimeZone", "value": [parameters("TimeZone") ] ] ] } ] }, { "condition": [ "equals(toLower(parameters(type))", "Microsoft.GuestConfiguration/" ), parameters("configurationName") ] }, { "location": [ parameters("location") ], "properties": { "guestConfiguration": [ "name": [ parameters("configurationName") ], "version": "1.*", "configurationParameter": [ "\[name\]: [WindowsTimeZone1;TimeZone", "value": [parameters("TimeZone") ] ] ] } ] } ] }) }} });
"existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/complianceStatus","equals":"Compliant"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c2dd2a9a-8a20-4a9c-b8d6-f17ccc26939a","type":"Microsoft.Authorization/policyDefinitions","name":"c2dd2a9a-8a20-4a9c-b8d6-f17ccc26939a"},"properties":{"displayName":"Ensure that .NET Framework version is the latest, if used as a part of the API app","policyType":"BuiltIn","mode":"Indexed","description":"Periodically, newer versions are released for .NET Framework software either due to security flaws or to include additional functionality. Using the latest .NET framework version for web apps is recommended in order to take advantage of security fixes, if any, and/or new functionalities of the latest version.","metadata":{"version":"1.0.0","category":"App Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}}},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Web/sites"},{"field":"kind","like":"*api"}]},"then":{"effect":parameters('effect'),"details":{"type":"Microsoft.Web/sites/config","name":"web","existenceCondition":{"field":"Microsoft.Web/sites/config/web.netFrameworkVersion","in":["v3.0","v4.0"]}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c2e7ca55-f62c-49b2-89a4-d41eb661d2f0","type":"Microsoft.Authorization/policyDefinitions","name":"c2e7ca55-f62c-49b2-89a4-d41eb661d2f0"},"properties":{"displayName":"Microsoft Managed Control 1176 - Baseline Configuration","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Configuration Management control","metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1176"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":"false","equals":"true"]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c30690a5-7bf3-467f-b0cd-ef5c7c7449cd","type":"Microsoft.Authorization/policyDefinitions","name":"c30690a5-7bf3-467f-b0cd-ef5c7c7449cd"},"properties":{"displayName":"Microsoft Managed Control 1389 - Information Spillage Response","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control"},"metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1389"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":"false","equals":"true"]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c39e6fda-ae70-4891-a739-be7ba6d1062","type":"Microsoft.Authorization/policyDefinitions","name":"c39e6fda-ae70-4891-a739-be7ba6d1062"},"properties":{"displayName":"Microsoft Managed Control 1390 - Information Spillage Response | Responsible Personnel","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control"},"metadata":{"version":"1.0.0","category":"Regulatory Compliance"},"additionalMetadataId":/providers/Microsoft.PolicyInsights/policyMetadata/ACF1390"},"policyRule":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]},"value":"false","equals":"true"]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c3b65b63-09ec-4cb5-8028-7dd324d10eb0","type":"Microsoft.Authorization/policyDefinitions","name":"c3b65b63-09ec-4cb5-8028-7dd324d10eb0"},"properties":{"displayName":"System updates on virtual machine scale sets should be installed","policyType":"BuiltIn","mode":"Indexed","description":"Audit
whether there are any missing system security updates and critical updates that should be installed to ensure that your Windows and Linux virtual machine scale sets are secure.

The policy checks for system security updates and critical updates that should be installed to ensure the security of your Windows and Linux virtual machine scale sets. The policy is designed to enable or disable the execution of the updates based on the defined effect. The `if` block contains conditions to identify the type of virtual machine and the specific image publisher, offer, and SKU combinations that need to be audited.

Show audit results from Linux VMs that have accounts without passwords. This policy should only be used along with its corresponding deploy policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1220 - Least Functionality | Authorized Software / Whitelisting

Managed Control 1513 - Personnel Screening | Information With Special Protection Measures

Antimalware for Azure should be configured to automatically update protection signatures.

Container Registry should use a virtual network service endpoint.
Microsoft.Authorization/policyDefinitions/c4857be7-912a-4c75-87e6-e30292bafd8f", "type": "Microsoft.Authorization/policyDefinitions", "name": "c4857be7-912a-4c75-87e6-e30292bafd8f", "properties": {"displayName": "Microsoft Managed Control 1235 - Software Usage Restrictions", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1235"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c49c610b-ec4c-44b3-98c-2172b70d6e46", "type": "Microsoft.Authorization/policyDefinitions", "name": "c49c610b-ec4c-44b3-98c-2172b70d6e46", "properties": {"displayName": "Microsoft Managed Control 1173 - Internal System Connections", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1173"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c4aff9e7-2e60-46fa-86be-506b79033fc5", "type": "Microsoft.Authorization/policyDefinitions", "name": "c4aff9e7-2e60-46fa-86be-506b79033fc5", "properties": {"displayName": "Managed identity should be used in your API App", "policyType": "BuiltIn", "mode": "Indexed", "description": "Use a managed identity for enhanced authentication security", "metadata": {"version": "1.0.0", "category": "App Service"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": [{"AuditIfNotExists", "Disabled"}, {"defaultValue": AuditIfNotExists}]}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "*api"]}, "then": {"effect": parameters(effect)", "details": {"type": "Microsoft.Web/sites/config", "name": web", "existenceCondition": {"field": "Microsoft.Web/sites/config/managedListIdentityId", "exists": true}]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c4d441f8-f9d9-4a9e-9cef-e82117cb3eef", "type": "Microsoft.Authorization/policyDefinitions", "name": "c4d441f8-f9d9-4a9e-9cef-e82117cb3eef", "properties": {"displayName": "Authentication should be enabled on your API app", "policyType": "BuiltIn", "mode": "Indexed", "description": "Azure App Service Authentication is a feature that can prevent anonymous HTTP requests from reaching the API app, or authenticate those that have tokens before they reach the API app", "metadata": {"version": "1.0.0", "category": "App Service"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": [{"AuditIfNotExists", "Disabled"}, {"defaultValue": AuditIfNotExists}]}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "like": "*api"]}, "then": {"effect": parameters(effect)", "details": {"type": "Microsoft.Web/sites/config", "name": web", "existenceCondition": {"field": "Microsoft.Web/sites/config/siteAuthEnabled", "exists": true}]}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c4ebc54a-46e1-481a-bee2-d4411e95d828", "type": "Microsoft.Authorization/policyDefinitions", "name": "c4ebc54a-46e1-481a-bee2-d4411e95d828", "properties": {"displayName": "Microsoft Managed Control 1600 - Developer Security Testing And Evaluation", "policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this System and Services Acquisition control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1600"},"policyRule ":{"if":{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c53f3123-d233-44a7-930bf40d3bfeb7d6","type": "Microsoft.Authorization/policyDefinitions", "name": "c53f3123-d233-44a7-930bf40d3bfeb7d6"}, 

properties": {"displayName": "An activity log alert should exist for specific Policy operations", "policyType": "BuiltIn", "mode": "All", "description": "This policy audits specific Policy operations with no activity log alerts configured.", "metadata": {"version": "2.0.0", "category": "Monitoring"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "operationName": {"type": "String", "metadata": {"displayName": "Operation Name", "description": "Policy Operation name for which activity log alert should exist"}, "allowedValues": ["Microsoft.Authorization/policyAssignments/write", "Microsoft.Authorization/policyAssignments/delete"]}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Insights/ActivityLogAlerts", "existenceCondition": {"allOf": [{"field": "Microsoft.Insights/ActivityLogAlerts/enabled", "equals": true}, "count": {"field": "Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].where": {"anyOf": [{"field": "Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].field", "equals": "category"}, {"field": "Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].equals", "equals": "Policy"}], "allOf": [{"field": "Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].field", "equals": "OperationName"}], "allOf": [{"field": "Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].equals", "equals": "Policy"}]}]}], "equals": 2}, "not": {"field": "Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].field", "equals": "category"}, "not": {"field": "Microsoft.Insights/ActivityLogAlerts/condition.allOf[*].field", "equals": "OperationName"}]}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c5447c04-a4d7-4ba8-a263-c9ee321a6858","type": "Microsoft.Authorization/policyDefinitions", "name": "c5447c04-a4d7-4ba8-a263-c9ee321a6858"}, 

properties": {"displayName": "Microsoft Managed Control 1408 - Maintenance Tools | Prevent Unauthorized Removal", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1408"}, "policyRule ":{"if":{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/c5f56ac6-4bb2-4086-bc41-ad76344ba2c2","type": "Microsoft.Authorization/policyDefinitions", "name": "c5f56ac6-4bb2-4086-bc41-ad76344ba2c2"}, 

properties": {"displayName": "Deploy prerequisites to audit Windows VMs that contain certificates expiring within the specified number of days", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines that contain certificates expiring within the specified number of days. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.1.0-preview", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"], "preview": true}, "parameters": {"CertificateSt
Certificate store path, "description": "The path to the certificate store containing the certificates to check the expiration dates of. Default value is "Cert:" which is the root certificate store path, so all certificates on the machine will be checked. Other example paths: "Cert:\LocalMachine", "Cert:\LocalMachine\TrustedPublisher", "Cert:\CurrentUser", "defaultValue": "Cert:"}, "ExpirationLimitInDays": {"type": "String", "metadata": {"displayName": "Expiration limit in days", "description": "An integer indicating the number of days within which to check for certificates that are expiring. For example, if this value is 30, any certificate expiring within the next 30 days will cause this policy to be non-compliant."}, "defaultValue": "30"}, "CertificateThumbprintsToInclude": {"type": "String", "metadata": {"displayName": "Certificate thumbprints to include", "description": "A semicolon-separated list of certificate thumbprints to check under the specified path. If a value is not specified, all certificates under the certificate store path will be checked. If a value is specified, no certificates other than those with the thumbprints specified will be checked. e.g. THUMBPRINT1;THUMBPRINT2;THUMBPRINT3"}, "defaultValue": ""}, "CertificateThumbprintsToExclude": {"type": "String", "metadata": {"displayName": "Certificate thumbprints to exclude", "description": "A semicolon-separated list of certificate thumbprints to ignore. e.g. THUMBPRINT1;THUMBPRINT2;THUMBPRINT3"}, "defaultValue": ""}, "IncludeExpiredCertificates": {"type": "String", "metadata": {"displayName": "Include expired certificates", "description": "Must be "true" or "false". True indicates that any found certificates that have already expired will also make this policy non-compliant. False indicates that certificates that have expired will be ignored."}, "allowedValues": ["true", "false"], "defaultValue": "false"}, "policyRule": {"if": {"anyOf": [{"allOf": [{"field": "type", "equals": "Microsoft.Compute/virtualMachines"}, {"anyOf": [{"field": "Microsoft.Compute/imagePublisher", "in": ["esri", "incredibuild", "MicrosoftDynamicsAX", "MicrosoftSharepoint", "MicrosoftVisualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack"]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"}, {"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer"}, {"field": "Microsoft.Compute/imageOffer", "equals": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer"}, {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-dsvm"}, {"field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"}, {"field": "Microsoft.Compute/imageOffer", "in": ["standard-data-science-vm", "windows-data-science-vm"]}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "batch"}, {"field": "Microsoft.Compute/imageOffer", "equals": "rendering-windows2016"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "center-for-internet-security"}, {"field": "Microsoft.Compute/imageOffer", "like": "cis-windows-server-201*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"}, {"field": "Microsoft.Compute/imageOffer", "like": "bosh-windows-server*"}]}, {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"}, {"field": "Microsoft.Compute/imageOffer", "like": "ad*"}]}, {"allOf": [{"anyOf": [{"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": "true"}, {"field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType", "like": "Windows*"}]}, {"anyOf": [{"field": "Microsoft.Compute/imageSKU", "exists": "true"}]}]}}}]]}},
Deploy Diagnostic Settings for Recovery Services Vault to Log Analytics workspace for resource specific categories.

```
if (allof(["field":"type","equals":"Microsoft.RecoveryServices/vaults"],
["not":{"field":concat(tags["parameters"["tagName"],"""])},
["field":"Microsoft.Insights/diagnosticSettings/logs[*].Enabled","equals":"true"])},
["Equals":6],
["field":Microsoft.Insights/diagnosticSettings/workspaceId,"notEquals":""],
["field":Microsoft.Insights/diagnosticSettings/logAnalyticsDestinationType,"equals":"Dedicated"],
"roleDefinitionIds":[])
```

Log Analytics workspace, "description": "Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant "Log Analytics Contributor" permissions (or similar) to the policy assignment’s principal.

```
Exclusion Tag Name, "description": "Name of the tag to use for excluding vaults from this policy. This should be used along with the Exclusion Tag Value parameter.

Exclusion Tag Value, "description": "Value of the tag to use for excluding vaults from this policy. This should be used along with the Exclusion Tag Name parameter.
```

"policyRule":{"if":{"allof":{["field":"type","equals":"Microsoft.RecoveryServices/vaults"],
["not":{"field":concat(tags["parameters"["tagName"],"""])},
["field":"Microsoft.Insights/diagnosticSettings/logs[*].Enabled","equals":"true"]},
["Equals":6],
["field":Microsoft.Insights/diagnosticSettings/workspaceId,"notEquals":""],
["field":Microsoft.Insights/diagnosticSettings/logAnalyticsDestinationType,"equals":"Dedicated"],
"roleDefinitionIds":[]}
```
Open Source Used In SDWan 20.6.1

Managed Control 1619 - Information In Shared Resources

Managed Control 1121 - Audit Review, Analysis, And Reporting | Correlation

Managed Control 1353 - Incident Response Training

Authentication should be enabled on your Function app, "policyType": "BuiltIn", "mode": "Indexed", "description": "Azure App Service Authentication is a feature that can prevent anonymous HTTP requests from reaching the Function app, or authenticate those that have tokens before they reach the Function app", "metadata": {"version": "1.0.0", "category": "App Service"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": [{"AuditIfNotExists", "Disabled"}], "defaultValue": "AuditIfNotExists"}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "equals": "functionapp"}]}, "then": {"effect": "[parameters(''effect'')]", "details": {"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"field": "Microsoft.Web/sites/config/siteAuthEnabled", "equals": "true"}}}}, id": "/providers/Microsoft.Authorization/policyDefinitions/c75248c1-ea1d-4a9c-8fc9-29a6aab5d5a8","type": "Microsoft.Authorization/policyDefinitions", "name": "c75248c1-ea1d-4a9c-8fc9-29a6aab5d5a8"}, {"properties": {"displayName": "Microsoft Managed Control 1353 - Incident Response Training", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1353"}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Web/sites"}, {"field": "kind", "equals": "functionapp"}]}, "then": {"effect": "[parameters(''effect'')]", "details": {"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"field": "Microsoft.Web/sites/config/siteAuthEnabled", "equals": "true"}}}, id": "/providers/Microsoft.Authorization/policyDefinitions/c785ad59-f78f-44ad-9a7f-9a7f"}}}}

"configured for diagnostic logs for ", ", parameters("vaultName"), "/", "Microsoft.Insights/", parameters("profileName"))}}}, "parameters": {"logAnalytics": [parameters("logAnalytics")], "vaultName": [field("name")], "profileName": [parameters("profileName")]]}}} id": "/providers/Microsoft.Authorization/policyDefinitions/c717fb0c-d118-4c43-ab3d-ece30a81fb3","type": "Microsoft.Authorization/policyDefinitions", "name": "c717fb0c-d118-4c43-ab3d-ece30a81fb3"}, {"properties": {"displayName": "Microsoft Managed Control 1619 - Information In Shared Resources", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1619"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}], "then": {"effect": "audit"}}}, id": "/providers/Microsoft.Authorization/policyDefinitions/c722e569-cb52-45f3-a643-836547d016e1","type": "Microsoft.Authorization/policyDefinitions", "name": "c722e569-cb52-45f3-a643-836547d016e1"}, {"properties": {"displayName": "Microsoft Managed Control 1121 - Audit Review, Analysis, And Reporting | Correlation With Physical Monitoring", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1121"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}], "then": {"effect": "audit"}}}, id": "/providers/Microsoft.Authorization/policyDefinitions/c72b0eb9-1fc2-44e5-a866-e7cb0532f7c1"}
Email notifications to admins and subscription owners should be enabled in SQL server advanced data security settings. This ensures that any detections of anomalous activities on SQL server are reported as soon as possible to the admins.

```
d1202318c748"},"type":"Microsoft.Authorization/policyDefinitions","name":"c785ad59-f78f-44ad-9a7f-d1202318c748"},{"properties":{"displayName":"Email notifications to admins and subscription owners should be enabled in SQL server advanced data security settings","policyType":"BuiltIn","mode":"Indexed","description":"Audit that 'email notification to admins and subscription owners' is enabled in the SQL server advanced threat protection settings. This ensures that any detections of anomalous activities on SQL server are reported as soon as possible to the admins.","metadata":{"version":"1.0.0","category":"SQL"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"}}}},"policyRule":{"if":{"field":"type","equals":"Microsoft.Sql/servers"},"then":{"effect":parameters("effect"),"details":{"type":"Microsoft.SqlServers/securityAlertPolicies","name":"default","existenceCondition":{"field":"Microsoft.SqlServers/securityAlertPolicies/emailAccountAdmins","equals":"true"}}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/c8343d2f-fdc9-4a97-b76f-fc71d163bfc","type":"Microsoft.Authorization/policyDefinitions","name":"c8343d2f-fdc9-4a97-b76f-fc71d163bfc"},{"properties":{"displayName":"Deploy Diagnostic Settings for Batch Account to Log Analytics workspace","policyType":"BuiltIn","mode":"Indexed","description":"Deploys the diagnostic settings for Batch Account to stream to a regional Log Analytics workspace when any Batch Account which is missing this diagnostic settings is created or updated.","metadata":{"version":"1.0.0","category":"Monitoring"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":["DeployIfNotExists","Disabled"],"defaultValue":"DeployIfNotExists"},"profileName":{"type":"String","metadata":{"displayName":"Profile name","description":"The diagnostic settings profile name"},"defaultValue":"setbypolicy_logAnalytics"},"logAnalytics":{"type":"String","metadata":{"displayName":"Log Analytics workspace","description":"Select Log Analytics workspace from dropdown list. If this workspace is outside of the scope of the assignment you must manually grant 'Log Analytics Contributor' permissions (or similar) to the policy assignment's principal ID."},"strongType":"omsWorkspace","assignPermissions":true},"metricsEnabled":{"type":"String","metadata":{"displayName":"Enable metrics","description":"Whether to enable metrics stream to the Log Analytics workspace - True or False"},"allowedValues":["True","False"],"defaultValue":"False"},"logsEnabled":{"type":"String","metadata":{"displayName":"Enable logs","description":"Whether to enable logs stream to the Log Analytics workspace - True or False"},"allowedValues":["True","False"],"defaultValue":"False"}}},"policyRule":{"if":{"field":"type","equals":"Microsoft.Batch/batchAccounts"},"then":{"effect":parameters("effect"),"details":{"type":"Microsoft.Insights/diagnosticSettings","name":parameters("profileName"),"existenceCondition":{"allOf":["Microsoft.Insights/diagnosticSettings/logs.enabled","Microsoft.Insights/diagnosticSettings/metrics.enabled"]}}}}}}},"roleDefinitionIds":["/providers/microsoft.authorization/policyDefinitions/c8343d2f-fdc9-4a97-b76f-fc71d163bfc"]
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"properties": ["name":"Deprecated",
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"metadata": {"version":"1.0.0-deprecated","category":"Security Center","deprecated":true},
"parameters": ["effect": "AuditIfNotExists", "details": {"type": "Microsoft.Security/complianceResults","name": "OnlyHttpsForApiApp","existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}
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},
"id": "/providers/Microsoft.Authorization/policyDefinitions/c89ba09f-2e0f-44d0-44d0-8095-65b05bd151ef",
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Show audit results from Windows VMs configurations in "User Rights Assignment".

This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "User Rights Assignment". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

The policy creates a Guest Configuration assignment to audit Windows virtual machines with a pending reboot. It also creates a system-assigned managed identity.
and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Open Source Used In SDWan 20.6.1  18000
parameters("location")}], "sku": {"name": "Standard_LRS", "tier": "Standard" }, "kind": "Storage", "location": ["parameters("location")"], "tags": {"created-by": "policy" }, "scale": {"null", "properties": {"networkAcls": {"bypass": "AzureServices", "defaultAction": "Allow", "ipRules": ["virtualNetworkRules"] }, "supportsHttpsTrafficOnly": true } }, "outputs": {"storageAccountId": {"type": "string", "value": "resourceId(parameters(rgName))", "Microsoft.Storage/storageAccounts", concat (parameters("storagePrefix"), parameters("location"))"]) }, "parameters": {"location": {"value": ["field("location")"] }, "storagePrefix": {"value": ["parameters("storagePrefix")"], "rgName": {"value": ["parameters(rgName)"], "nsgName": {"value": ["field("name ")"] ]]; } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/c9c29499-c1d1-4195-99bd-2ec9e3a9dc89", "type": "Microsoft.Authorization/policyDefinitions", "name": "c9c29499-c1d1-4195-99bd-2ec9e3a9dc89" }, "properties": {"displayName": "Storage accounts should allow access from trusted Microsoft services", "policyType": "BuiltIn", "mode": "Indexed", "description": "Some Microsoft services that interact with storage accounts operate from networks that can't be granted access through network rules. To help this type of service work as intended, allow the set of trusted Microsoft services to bypass the network rules. These services will then use strong authentication to access the storage account.", "metadata": {"version": "1.0.0", "category": "Storage" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match" }, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit" }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.Storage/storageAccounts" }, {"field": "Microsoft.Storage/storageAccounts/networkAcls.bypass", "exists": true } ], "notContains": ["AzureServices"] }, "then": {"effect": ["parameters("effect")"] } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/ca610c1d-041c-4332-9d88-7ed3094967c7", "type": "Microsoft.Authorization/policyDefinitions", "name": "ca610c1d-041c-4332-9d88-7ed3094967c7" }, "properties": {"displayName": "App Configuration should use a private link", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any App Configuration instance that does not use a private link.", "metadata": {"version": "1.0.0", "category": "App Configuration" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists" }, "policyRule": {"if": {"field": "type", "equals": "Microsoft.AppConfiguration/configurationStores" }, "then": {"effect": ["parameters("effect")"] }, "details": {"type": "Microsoft.AppConfiguration/configurationStores/privateEndpointConnections", "existenceCondition": {"field": "Microsoft.AppConfiguration/configurationStores/privateEndpointConnections/privateLinkServiceConnectionState.status", "equals": "Approved" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/ca94b046-45e2-444f-a862-dc8ce262a516", "type": "Microsoft.Authorization/policyDefinitions", "name": "ca94b046-45e2-444f-a862-

Open Source Used In SDWan 20.6.1 18001
dc8ce262a516","properties":{"displayName":"Microsoft Managed Control 1243 - Contingency Planning Policy And Procedures","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Contingency Planning control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1243"},"policyRule":{"if":{"allOf":["field":"type","in":""]},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/ca9a4469-d6df-4ab2-a42f-1213c396f0ee","type":"Microsoft.Authorization/policyDefinitions","name":"ca9a4469-d6df-4ab2-a42f-1213c396f0ee"},"properties":{"displayName":"Microsoft Managed Control 1206 - Identification And Authentication (Org. Users) | Network Access To Priv. Accts. - Replay","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Identification and Authentication control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1206"},"policyRule":{"if":{"allOf":["field":"type","in":""]},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/cb510bfd-1cba-4d9f-a230-cb0976f4bb71","type":"Microsoft.Authorization/policyDefinitions","name":"cb510bfd-1cba-4d9f-a230-cb0976f4bb71"},"properties":{"displayName":"Remote debugging should be turned off for Web Applications","policyType":"BuiltIn","mode":"Indexed","description":"Remote debugging requires inbound ports to be opened on a web application. Remote debugging should be turned off.","metadata":{"version":"1.0.0","category":"App Service"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{"allOf":["field":"type","equals":"Microsoft.Web/sites"],"field":"kind","like":"app*"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/cb790345-a51f-43de-934e-98dbfaf9dca5","type":"Microsoft.Authorization/policyDefinitions","name":"cb790345-a51f-43de-934e-98dbfaf9dca5"},"properties":{"displayName":"Microsoft Managed Control 1486 - Alternate Work Site","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Physical and Environmental Protection control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1486"},"policyRule":{"if":{"allOf":["field":"type","in":""]},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/cb790345-a51f-43de-934e-98dbfaf9dca5","type":"Microsoft.Authorization/policyDefinitions","name":"cb790345-a51f-43de-934e-98dbfaf9dca5"},"properties":{"displayName":"Microsoft Managed Control 1167 - Continuous Monitoring","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Security Assessment and Authorization control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1167"},"policyRule":{"if":{"allOf":["field":"type","in":""]},"then":{"effect":"audit"}},"id":"/providers/Microsoft.Authorization/policyDefinitions/cb790345-a51f-43de-934e-98dbfaf9dca5","type":"Microsoft.Authorization/policyDefinitions","name":"cb790345-a51f-43de-934e-98dbfaf9dca5"},"properties":{"displayName":"Microsoft Managed Control 1167 - Alternate Work Site"}
Managed Control 1374 - Incident Response Assistance

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"value": false, 
"equals": true 
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"then": 
{"effect": audit 
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"type": "Microsoft.Authorization/policyDefinitions", 
"name": "cbb2be76-4891-430b-95a7-ca0b0a3d1300", 
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"policyRule": 
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"allOf": ["Microsoft.HybridComputer/imageOffer", "notLike": "SQL2008*"]}, 
"allOf": ["Microsoft.HybridComputer/imageOffe
Sensitive data in your SQL databases should be classified. Azure Security Center monitors the data discovery and classification scan results for your SQL databases and provides recommendations to classify the sensitive data in your databases for better monitoring and security.

**BuiltIn Policy: SqlDataClassification**

- **Description:** Azure Security Center monitors the data discovery and classification scan results for your SQL databases and provides recommendations to classify the sensitive data in your databases for better monitoring and security.
- **Parameters:**
  - **Effect:** Enable or disable the execution of the policy.
  - **Default Value:** AuditIfNotExists
- **Policy Rule:**
  - **If:** Field: type, in: [Microsoft.Sql/servers/databases, Microsoft.Sql/managedInstances/databases].
  - **Then:** Effect: [parameters('effect')]
- **Id:** /providers/Microsoft.Authorization/policyDefinitions/cc9835f2-9f6b-4cc8-ab4af8ef615eb349

**BuiltIn Policy: Allowed virtual machine size SKUs**

- **Description:** This policy enables you to specify a set of virtual machine size SKUs that your organization can deploy.
- **Parameters:**
  - **Allowed Size SKUs:** The list of size SKUs that can be specified for virtual machines.
- **Id:** /providers/Microsoft.Authorization/policyDefinitions/cccc23c7-8427-4f53-ad12-b6a63eb452b3

**Static Policy: Microsoft Managed Control 1443 - Media Use**

- **Description:** Microsoft implements this Media Protection control.
- **If:**
  - **AllOf:**
    - Field: type, in: [Microsoft/Resources/subscriptions, Microsoft/Resources/subscriptions/resourceGroups].
    - Value: false
- **Then:**
  - Effect: audit
- **Id:** /providers/Microsoft.Authorization/policyDefinitions/cd0ec6fa-a2e7-4361-aee4-a8688659a9ed

**BuiltIn Policy: Inherit a tag from the resource group**

- **Description:** Adds or replaces the specified tag and value from the parent resource group when any resource is created or updated. Existing resources can be remediated by triggering a remediation task.
- **Parameters:**
  - **TagName:** Name of the tag, such as "environment"

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20f7382dd24c", "operations": [{ "operation": "addOrReplace", "field": "[concat('tags['
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Allow resource creation if "department" tag
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Managed Control 1582 - Information System
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control", "metadata": { "version": "1.0.0", "category": "Regulatory
Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1582" }, "policyRule": { "if": { "allOf": [{ "field": "type", "in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": false, "equals": true } ], then: { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/cc9e2f38-259b-462c-bfad-
0ad7ab4e65c5", "type": "Microsoft.Authorization/policyDefinitions", "name": "cc9e2f38-259b-462c-bfad-
0ad7ab4e65c5" }, { "properties": { "displayName": "[Preview]:
Show audit results from Windows VMs that allow re-use of the previous 24
passwords", "policyType": "Builtin", "mode": "All", "description": "This
policy should only be used along with its corresponding deploy policy in an
initiative. This definition allows Azure Policy to process the results of
auditing Windows virtual machines that allow re-use of the previous 24 passwords.

For more information on Guest Configuration policies, please visit
https://aka.ms/gcpol", "metadata": { "version": "1.0.0-preview", "category": "Guest
Open Source Used In SDWan 20.6.1 18006

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Managed Control 1104 - Audit Events

This policy deploys an export to Event Hub configuration with your conditions and target Event Hub on the assigned scope. To deploy this policy on newly created subscriptions, open the Compliance tab, select the relevant non-compliant assignment and create a remediation task. To create an Event Hub, go to Azure Monitor and select Event Hub. To configure the Event Hub, go to Azure Monitor and select Event Hub. To configure the Event Hub, go to Azure Monitor and select Event Hub. To configure the Event Hub, go to Azure Monitor and select Event Hub. To configure the Event Hub, go to Azure Monitor and select Event Hub. To configure the Event Hub, go to Azure Monitor and select Event Hub. To configure the Event Hub, go to Azure Monitor and select Event Hub. To configure the Event Hub, go to Azure Monitor and select Event Hub. To configure the Event Hub, go to Azure Monitor and select Event Hub. To configure the Event Hub, go to Azure Monitor and select Event Hub. 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High;Medium;Low;"},"allowedValues":["High","Medium","Low"],"defaultValue":["High","Medium","Low"]},"ale
rtSeverities":{"type":"Array","metadata":{"displayName":"Alert
severities","description":"Applicable only for export of security alerts.
Determines alert severities. Example:
High;Medium;Low;"},"allowedValues":["High","Medium","Low"],"defaultValue":["High","Medium","Low"]},"ev
entHubDetails":{"type":"String","metadata":{"displayName":"Event
Hub details","description":"The Event Hub details of where the data should
be exported to: Subscription, Event Hub Namespace, Event Hub, and Authorizations
rules with ''Send'' claim. If you do not already have an event hub, visit
Event Hubs to create one
(https://portal.azure.com/#blade/HubsExtension/BrowseResource/resourceType/Microsoft.EventHub%2Fnamespace
s).","strongType":"Microsoft.EventHub/namespaces/eventhubs/authorizationrules","assignPermissions":true}}},"po
licyRule":{"if":{"field":"type","equals":"Microsoft.Resources/subscriptions"},"then":{"effect":"deployIfNotExists",
"details":{"type":"Microsoft.Security/automations","name":"exportToEventHub","existenceScope":"resourcegroup"
,"ResourceGroupName":"[parameters(''resourceGroupName'')]","deploymentScope":"subscription","roleDefinitionI
ds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab8820f7382dd24c"],"deployment":{"location":"westeurope","properties":{"mode":"incremental","template":{"$schema
":"https://schema.management.azure.com/schemas/2018-0501/subscriptionDeploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"resourceGroupName":{"typ
e":"string"},"resourceGroupLocation":{"type":"string"},"exportedDataTypes":{"type":"array"},"recommendationNa
mes":{"type":"array"},"recommendationSeverities":{"type":"array"},"alertSeverities":{"type":"array"},"eventHubD
etails":{"type":"string"},"guidValue":{"type":"string","defaultValue":"[newGuid()]"}},"variables":{"scopeDescripti
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for subscription
{0}","recommendationNamesLength":"[length(parameters(''recommendationNames''))]","recommendationSeverities
Length":"[length(parameters(''recommendationSeverities''))]","alertSeveritiesLength":"[length(parameters(''alertSev
erities''))]","recommendationNamesLengthIfEmpty":"[if(equals(variables(''recommendationNamesLength''),
0), 1,
variables(''recommendationNamesLength''))]","recommendationSeveritiesLengthIfEmpty":"[if(equals(variables(''rec
ommendationSeveritiesLength''),
0), 1,
variables(''recommendationSeveritiesLength''))]","alertSeveritiesLengthIfEmpty":"[if(equals(variables(''alertSeveriti
esLength''),
0), 1,
variables(''alertSeveritiesLength''))]","totalRuleCombinationsForOneRecommendationName":"[variables(''recomme
ndationSeveritiesLengthIfEmpty'')]","totalRuleCombinationsForOneRecommendationSeverity":1,"exportedDataTyp
esLength":"[length(parameters(''exportedDataTypes''))]","exportedDataTypesLengthIfEmpty":"[if(equals(variables('
'exportedDataTypesLength''),
0), 1,
variables(''exportedDataTypesLength''))]","SeperatedEventHubDetails":"[split(parameters(''eventHubDetails''),''/'')]",
"dataTypeMap":{"Security
recommendations":"Assessments","Security
alerts":"Alerts"},"alertSeverityMap":{"High":"high","Medium":"medium","Low":"low"},"ruleSetsForAssessments
Obj":{"copy":[{"name":"ruleSetsForAssessmentsArr","count":"[mul(variables(''recommendationNamesLengthIfEm
pty''),variables(''recommendationSeveritiesLengthIfEmpty''))]","input":{"rules":[{"propertyJPath":"[if(equals(variab
les(''recommendationNamesLength''),0),''type'',''name'')]","propertyType":"string","expectedValue":"[if(equals(varia
bles(''recommendationNamesLength''),0),''Microsoft.Security/assessments'',parameters(''recommendationNames'')[m
od(div(copyIndex(''ruleSetsForAssessmentsArr''),variables(''totalRuleCombinationsForOneRecommendationName'')

Open Source Used In SDWan 20.6.1 18007


Deploy prerequisites to audit Windows VMs configurations in "System Audit Policies - Privilege Use". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "System Audit Policies - Privilege Use". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only
be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Managed Control 1209 - Configuration Settings

Managed Control 1242 - Contingency Planning Policy And Procedures

Managed Control 1097 - Role-Based Security Training | Suspicious Communications And Anomalous System Behavior

Managed Control 1424 - Maintenance Personnel | Individuals Without Appropriate Access

Open Source Used In SDWan 20.6.1 18010
Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes when a security incident occurs or when your network is compromised.

For more information on Container Registry Network rules, please visit: https://aka.ms/acr/vnet.

Logs in Key Vault should be enabled when your network is compromised.

Container Registries should not allow unrestricted network access.

Managed Control 1292 - Information System Backup | Test Restoration Using Sampling

Microsoft implements this Contingency Planning control.

Managed Control 1724 - Error Handling.

Container Registries that do not have any Network (IP or VNET) Rules configured and allow all network access by default. Container Registries with at least one IP / Firewall rule or configured virtual network will be deemed compliant.

For more information on Container Registry Network rules, please visit: https://aka.ms/acr/vnet.

Container Registries that do not have any Network (IP or VNET) Rules configured and allow all network access by default. Container Registries with at least one IP / Firewall rule or configured virtual network will be deemed compliant.

For more information on Container Registry Network rules, please visit: https://aka.ms/acr/vnet.
Open Source Used In SDWan

Managed Control 1084 - Publicly Accessible

Content, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control policy type", "metadata": "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1084", "policyRule": "if": "allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"], then": "effect": "audit"}, "id": "providers/Microsoft.Authorization/policyDefinitions/d0eb15db-dd1c-4d1d-b200-b12dd6cd060c", "type": "Microsoft.Authorization/policyDefinitions", "name": "d0eb15db-dd1c-4d1d-b200-b12dd6cd060c"}, {"properties": {"displayName": "Microsoft Managed Control 1084 - Publicly Accessible Content", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control policy type", "metadata": "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1084", "policyRule": "if": "allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": "false", "equals": "true"], then": "effect": "audit"}, "id": "providers/Microsoft.Authorization/policyDefinitions/d0eb15db-dd1c-4d1d-b200-b12dd6cd060c", "type": "Microsoft.Authorization/policyDefinitions", "name": "d0eb15db-dd1c-4d1d-b200-b12dd6cd060c"}, {"properties": {"displayName": "Add or replace a tag on resource groups", "policyType": "BuiltIn", "mode": "All", "description": "Adds or replaces the specified tag and value when any resource group is created or updated. Existing resource groups can be remediated by triggering a remediation task.", "metadata": "version": "1.0.0", "category": "Tags", "parameters": {"tagName": {"type": "String", "metadata": {"displayName": "Tag Name", "description": "Name of the tag, such as "environment""}}, "tagValue": {"type": "String", "metadata": {"displayName": "Tag Value", "description": "Value of the tag, such as "production""}}, "policyRule": {"if": "allOf": ["field": "type", "equals": "Microsoft.Resources/subscriptions/resourceGroups"], "field": ["concat\("tags\[\], parameters\(\"tagName\)\)\), notEquals\(\"[\"parameters\(\"tagValue\)\)\)\]"], then": {"effect": "modify", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"], "operations": ["addOrReplace"], "field": ["concat\("tags\[\), parameters\(\"tagName\)\)\)"], "value": ["parameters\(\"tagValue\)\)\)"], "id": "providers/Microsoft.Authorization/policyDefinitions/d157c373-a6c4-483d-aaad-570756956268", "type": "Microsoft.Authorization/policyDefinitions", "name": "d157c373-a6c4-483d-aaad-570756956268"}, {"properties": {"displayName": "Enforce SSL connection should be enabled for PostgreSQL database servers", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any PostgreSQL server that is not enforcing SSL connection. Azure Database for PostgreSQL prefers connecting your client applications to the PostgreSQL service using Secure Sockets Layer (SSL). Enforcing SSL connections between your database server and your client applications helps protect against 'man-in-the-middle' attacks by encrypting the data stream between the server and your application", "metadata": {"version": "1.0.0", "category": "SQL"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}, "policyRule": {"if": "allOf": ["field": "type", "equals": "Microsoft.DBforPostgreSQL/servers"], "field": "Microsoft.DBforPostgreSQL/servers/sslEnforcement", "exists": "true", "value": "false", "notEquals": "Enabled"}, then": {"effect": "{parameters("effect")}"}, "id": "providers/Microsoft.Authorization/policyDefinitions/d158790f-bfb0-486c-
Managed Control 1620 - Denial Of Service

Protection”, “policyType”: “Static”, “mode”: “Indexed”, “description”: “Microsoft implements this System and Communications Protection control”, “metadata”: {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1620" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, "then": {"effect": "audit" }}, "id": "providers/Microsoft.Authorization/policyDefinitions/d17c826b-1dec-43e1-a984-7b71c446649c" }, {"properties": {"displayName": "Microsoft Managed Control 1409 - Maintenance Tools | Prevent Unauthorized Removal”, “policyType”: "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1409" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, "then": {"effect": "audit" }}, "id": "providers/Microsoft.Authorization/policyDefinitions/d1880188-e51a-4772-b2ab-68f5e8bd2716" }, {"properties": {"displayName": "[Deprecated]: Audit Function Apps that are not using custom domains", "policyType": "BuiltIn", "mode": "All", "description": "Use of custom domains protects a Function app from common attacks such as phishing and other DNS-related attacks.", "metadata": {"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists" } }, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "microsoft.Web/sites" }, {"anyOf": [{"field": "kind", "equals": "functionapp" }, {"field": "kind", "equals": "functionapp,linux" }], "then": {"effect": {"parameters": "AuditIfNotExists" }}, {"details": {"type": "Microsoft.Security/complianceResults", "name": "UsedCustomDomains", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"] } }}, "id": "providers/Microsoft.Authorization/policyDefinitions/d1cb47db-b7a1-4c46-814e-aad1c0e84f3c" }, {"properties": {"displayName": "Microsoft Managed Control 1195 - Configuration Change Control | Automated Document / Notification / Prohibition Of Changes", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1195" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"]}, "then": {"effect": "audit" }}, "id": "providers/Microsoft.Authorization/policyDefinitions/d1eb47db-b7a1-4c46-814e-aad1c0e84f3c" }, {"properties": {"displayName": "Microsoft Managed Control 1721 - Spam Protection | Central Management", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance" } }

Open Source Used In SDWan

Managed Control 1106 - Audit Events | Reviews And Updates

Microsoft implements this Audit and Accountability control.

Managed Control 1030 - Information Flow Enforcement | Physical / Logical Separation Of Information Flows

Microsoft implements this Access Control control.

Deploy prerequisites to audit Windows VMs on which the DSC configuration is not compliant.

Guest Configuration policies, please visit https://aka.ms/gcpol/...
imageOffer","like":"bosh-windows-server*"}},["allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructure-services"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}],"allOf":[{"field":"Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration","exists":"true"},{"field":"Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType","like":"Windows*"}],"allOf":[{"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists":"true"},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machines"},{"field":"Microsoft.HybridComputer/imageOffer","like":"windows*"}],"then":{"effect":"deployIfNotExists","details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"WindowsDscConfiguration","deployment":{"properties":{"mode":"incremental","parameters":{"vmName":{"value":"[field('name')]"},"location":{"value":"[field('location')]"},"type":{"value":"[field('type')]"},"configurationName":{"value":"[parameters('configurationName')]"},"resources":{"condition":"[equalstoLowerCase(parameters('type')),toLowerCase('microsoft.hybridcompute/machines')]"},"apiVersion":"2018-11-20","type":"Microsoft.HybridComputer/machines/providers/guestConfigurationAssignments","name":"[concat(parameters('vmName'),'\'/Microsoft.GuestConfiguration/',parameters('configurationName'))]","location":parameters('location')},"properties":{"guestConfiguration":{"name":parameters('configurationName'),"version":"1.*"}}},"condition":"[equals(toLowerCase(parameters('type')),toLowerCase('Microsoft.Compute/virtualMachines'))]","apiVersion":"2018-11-20","type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments","name":"[concat(parameters('vmName'),'\'/Microsoft.GuestConfiguration/',parameters('configurationName'))]","location":parameters('location')},"condition":"[equals(toLowerCase(parameters('type')),toLowerCase('Microsoft.Compute/virtualMachines'))]","apiVersion":"2019-07-01","type":"Microsoft.Compute/virtualMachines/extensions","name":"[concat(parameters('vmName'),'\'/AzurePolicyforWindows')]","location":parameters('location'),'Identity':{'type':'SystemAssigned'},"name":{"parameters('vmName')},"location":{"parameters('location')"},"condition":"[equalstoLowerCase(parameters('type')),toLowerCase('Microsoft.Compute/virtualMachines')]"},"apiVersion":"2015-05-01-preview","name":"[concat(parameters('vmName'))],"type":"Microsoft.Compute/virtualMachines/extensions","location":parameters('location'),'publisher':"Microsoft.GuestConfiguration","type":"ConfigurationforWindows","typeHandlerVersion":"1.1","autoUpgradeMinorVersion":true,"settings":{},"protectedSettings":{},"dependsOn":["[concat('Microsoft.Compute/virtualMachines/parameters('vmName')','/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters('configurationName')]",""]}],"id":"[providers/Microsoft.Authorization/policyDefinitions/d38b4c26-9d2e-47d7-aefe-18d859a8706a'/type'""Microsoft.Authorization/policyDefinitions","name":"d38b4c26-9d2e-47d7-aefe-18d859a8706a"},"properties":{"displayName":"Long-term geo-redundant backup should be enabled for Azure SQL Databases","policyType":"BuiltIn","mode":"Indexed","description":"This policy audits any Azure SQL Database with long-term geo-redundant backup not enabled.","metadata":{"version":"1.0.0","category":"SQL"},"parameters":{"effect":"type","String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":{"AuditIfNotExists","Disabled"},"defaultValue":"AuditIfNotExists"}],"policyRule":{"if":}
Managed Control 1641 - Transmission Confidentiality And Integrity | Cryptographic

Or Alternate Physical Protection, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1641" }, "policyRule": "{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] } ] }, "then": { "effect": "audit" } }" }, "/providers/Microsoft.Authorization/policyDefinitions/d3bf4251-0818-42db-950b-af5b25a51c2","type":"Microsoft.Authorization/policyDefinitions","name":"d3bf4251-0818-42db-950b-af5b25a51c2","properties":{"displayName":"Microsoft Managed Control 1562 - Allocation Of Resources","policyType":"Static","mode":"Indexed","description":"Microsoft implements this System and Services Acquisition control","metadata":{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1562" }, "policyRule": "{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups" ] } ] }, "then": { "effect": "audit" } }" }, "/providers/Microsoft.Authorization/policyDefinitions/d4142013-7964-4163-a313-a900301c2ef","type":"Microsoft.Authorization/policyDefinitions","name":"d4142013-7964-4163-a313-a900301c2ef","properties":{"displayName":"Virtual machines should be connected to an approved virtual network","policyType":"BuiltIn","mode":"Indexed","description":"This policy audits any virtual machine connected to a virtual network that is not approved."}, "metadata": {"version": "1.0.0", "category": "Network" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "The effect determines what happens when the policy rule is evaluated to match."}}, "allowedValues": ["Audit", "Deny", "Disabled"], "defaultValue": "Audit" }, "virtualNetworkId": {"type": "String", "metadata": {"displayName": "Virtual network Id", "description": "Resource Id of the virtual network. Example: /subscriptions/YourSubscriptionId/resourceGroups/YourResourceGroupName/providers/Microsoft.Network/virtualNetworks/Name" }}, "policyRule": { "if": { "allOf": [ { "field": "type", "equals": "Microsoft.Network/networkInterfaces" }, { "not": { "field": "Microsoft.Network/networkInterfaces/ipconfigurations[*].subnet.id", "like": "[concat(parameters("vi
Managed Control 1383 - Incident Response

Plan", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1383" }, "policyRule": {
"if": {
"allOf": [
{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}
],
"value": "false",
"equals": "true"
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/d4558451-e16a-4d2d-a066-fe12a6282bb9",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "d4558451-e16a-4d2d-a066-fe12a6282bb9",
"properties": {
"displayName": "Microsoft Managed Control 1112 - Response To Audit Processing Failures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Audit and Accountability control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1112" }, "policyRule": {
"if": {
"allOf": [
{
"field": "type",
"in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
}
],
"value": "false",
"equals": "true"
},
"then": {
"effect": "audit"
}
},
"id": "/providers/Microsoft.Authorization/policyDefinitions/d530aad8-4ee2-45f4-b234-c061dae683c0",
"type": "Microsoft.Authorization/policyDefinitions",
"name": "d530aad8-4ee2-45f4-b234-c061dae683c0",
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Hub should use a virtual network service endpoint.

This policy audits any Event Hub not configured to use a virtual network service endpoint.

Managed Control 1549 - Vulnerability Scanning

This policy audits Windows Azure Arc machines if the Log Analytics agent is not installed.

Managed Control 1473 - Emergency Power

Microsoft implements this Physical and Environmental Protection control.

Open Source Used In SDWan
Managed Control 1529 - Third-Party Personnel Security

Managed Control 1350 - Identification And Authentication (Non-Org. Users)

Managed Control 1410 - Use Of FICAM-Issued Profiles

Show audit results from Windows Server VMs on which Windows Serial Console is not enabled

Managed Control 1016 - Account Management | Automated Audit Actions

Managed Control 1488 - Alternate Work Site

Managed Control 1577 - Acquisition Process | Continuous Monitoring Plan

Public network access should be disabled for MySQL servers, "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits MySQL servers in your environment with public network access enabled. For more details, visit https://go.microsoft.com/fwlink/?linkid=2120014."
Microsoft implements this Contingency Planning control, "Microsoft Managed Control 1271 - Alternate Storage Site Accessibility". It ensures that there is an alternative storage site for data in case of primary site failure. The policy enforces an audit effect, ensuring compliance with regulatory standards.

Plain Text:

- **Microsoft Managed Control 1271 - Alternate Storage Site Accessibility**
  - **Policy Type**: Static
  - **Mode**: Indexed
  - **Description**: This policy ensures that an alternate storage site is configured for data protection. It implements an audit effect to monitor compliance.

- **Microsoft Managed Control 1516 - Personnel Termination**
  - **Policy Type**: Static
  - **Mode**: Indexed
  - **Description**: This policy mandates that personnel security measures are in place, ensuring compliance with regulatory requirements. It also enforces an audit effect for monitoring purposes.

- **Deploy Diagnostic Settings for Batch Account to Event Hub**
  - **Policy Type**: BuiltIn
  - **Mode**: Indexed
  - **Description**: This policy deploys diagnostic settings for Batch Accounts to a regional Event Hub. It is designed to stream diagnostics to a specific Event Hub when a new Batch Account is created or updated. The policy allows for configuring the diagnostic settings profile name, Event Hub Location, and other attributes to enable or disable metrics and logs.

- **Event Hub Authorization Rule Id**
  - **Description**: The Event Hub authorization rule id for Azure Diagnostics. It is used to link Event Hub namespace to Batch Accounts. The rule needs to be at the Event Hub namespace level. The policy allows for setting the Event Hub Location and enabling diagnostics.

Plain Text:

- **Managed Control 1271 - Alternate Storage Site Accessibility**

- **Managed Control 1516 - Personnel Termination**

- **Deploy Diagnostic Settings for Batch Account to Event Hub**

- **Event Hub Authorization Rule Id**
Audit Web Applications that are not using custom domains,
"policyType": "BuiltIn",
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Open Source Used In SDWan 20.6.1 18024
Managed Control 1715 - Software, Firmware, And Information Integrity | Automated Response To Integrity Violations, policyType: Static, mode: Indexed, description: Microsoft implements this System and Information Integrity control, metadata: {"version": "1.0.0", "category": "Regulatory Compliance"}, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1715, policyRule: {"if": {"allOf": [{"field": type, "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, then: {"effect": audit}, id: /providers/Microsoft.Authorization/policyDefinitions/dd4680ed-0559-4a6a-ad10-081d14cb4b84

Managed Control 1678 - Malicious Code Protection, policyType: Static, mode: Indexed, description: Microsoft implements this System and Information Integrity control, metadata: {"version": "1.0.0", "category": "Regulatory Compliance"}, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1678, policyRule: {"if": {"allOf": [{"field": type, "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, then: {"effect": audit}, id: /providers/Microsoft.Authorization/policyDefinitions/dd533cb0-b416-4be7-8e86-4d154824dfd7

Managed Control 1391 - Information Spillage Response | Training, policyType: Static, mode: Indexed, description: Microsoft implements this Incident Response control, metadata: {"version": "1.0.0", "category": "Regulatory Compliance"}, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1391, policyRule: {"if": {"allOf": [{"field": type, "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, then: {"effect": audit}, id: /providers/Microsoft.Authorization/policyDefinitions/dd6ac1a1-660e-4810-baa8-74e868e2ed47

Managed Control 1146 - Security Assessments, policyType: Static, mode: Indexed, description: Microsoft implements this Security Assessment and Authorization control, metadata: {"version": "1.0.0", "category": "Regulatory Compliance"}, additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1146, policyRule: {"if": {"allOf": [{"field": type, "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, then: {"effect": audit}, id: /providers/Microsoft.Authorization/policyDefinitions/dd83410c-ecb6-4547-8f14-748c3cbdc7ac

Managed Control 1602 - Developer Security Testing And Evaluation, policyType: Static, mode: Indexed, description: Microsoft implements this System and Services Acquisition
Show audit results from Windows VMs configurations in "Security Settings - Account Policies".

This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Settings - Account Policies". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Deploy prerequisites to audit Windows VMs configurations in "Security Options - Recovery console".

This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Recovery console". It also creates a system-assigned managed identity and
deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Recovery console: Allow floppy copy and access to all drives and all folders.

Specifies whether to make the Recovery Console SET command available, which allows setting recovery console environment variables.

defaultValue: 0

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Open Source Used In SDWan 20.6.1 18027
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Managed Control 1528 - Access

Agreements", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1528"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/dfbd9a64-6114-48de-a47d-90574dc2e489"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "dfbd9a64-6114-48de-a47d-90574dc2e489"}, "properties": {"displayName": "MariaDB server should use a virtual network service endpoint", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits MariaDB servers not configured to use a virtual network service endpoint. For more details, visit https://aka.ms/mariadbvirtualnetwork", "metadata": {"version": "1.0.1", "category": "SQL"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.DBforMariaDB/servers"}, "then": {"effect": [parameters('effect')], "details": {"type": "Microsoft.DBforMariaDB/servers/virtualNetworkRules", "existenceCondition": {"field": "Microsoft.DBforMariaDB/servers/virtualNetworkRules/virtualNetworkSubnetId", "exists": true}]], "id": "/providers/Microsoft.Authorization/policyDefinitions/dfbd9a64-6114-48de-a47d-90574dc2e489"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "dfbd9a64-6114-48de-a47d-90574dc2e489"}, "properties": {"displayName": "Microsoft Managed Control 1673 - Flaw Remediation | Automated Flaw Remediation Status", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}}
Allow resource creation only in Japan data centers, policyType: "BuiltIn", mode: "Indexed", description: "Allows resource creation in the following locations only: Japan East, Japan West", metadata: {"category": "General", "deprecated": true}, parameters: {}, policyRule: {"if": {"not": {"field": "location", "in": ["japaneast", "japanwest"]}}, "then": {"effect": "Deny"}}, id: "/providers/Microsoft.Authorization/policyDefinitions/ef01598e-6538-41ed-95e8-8b29746cd697", type: "Microsoft.Authorization/policyDefinitions", name: "e01598e8-6538-41ed-95e8-8b29746cd697", properties: {"displayName": "Cosmos DB should use a virtual network service endpoint", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any Cosmos DB not configured to use a virtual network service endpoint.", "metadata": {"version": "1.0.0", "category": "Network"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy."}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}}, "policyRule": {"if": {"allOf": ["{"field": "virtualNetworkRules[*].id", "exists": false"}]}, "then": {"parameters": {"effect": "[parameters('effect')]")}}, id: "/providers/Microsoft.Authorization/policyDefinitions/e0a2b1a3-f7f9-4569-807f-2a9ede8d1f4d", type: "Microsoft.Authorization/policyDefinitions", name: "e0a2b1a3-f7f9-4569-807f-2a9ede8d1f4d", properties: {"displayName": "Deploy prerequisites to audit Windows VMs that do not have the specified Windows PowerShell execution policy", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines where Windows PowerShell is not configured to use the specified PowerShell execution policy. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", metadata: {"version": "1.1.0", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"], parameters: {"ExecutionPolicy": {"type": "String", "metadata": {"displayName": "PowerShell Execution Policy", "description": "The expected PowerShell execution policy."}, "allowedValues": ["AllSigned", "Bypass", "Default", "RemoteSigned", "Restricted", "Undefined", "Unrestricted"]}}}}
Microsoft implements this System and Information Integrity control, "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACFI714"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e0efc13a-122a-47c5-b817-2ccfe5d12615", "type": "/Microsoft.Authorization/policyDefinitions", "name": "e0efc13a-122a-47c5-b817-2ccfe5d12615"}, {"properties": {"displayName": "Microsoft Managed Control 1714 - Software, Firmware, And Information Integrity | Automated Notifications Of Integrity Violations", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACFI1686"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e12494fa-b81e-4080-af71-7dbacc2da0ee", "type": "/Microsoft.Authorization/policyDefinitions", "name": "e12494fa-b81e-4080-af71-7dbacc2da0ee"}, {"properties": {"displayName": "Microsoft Managed Control 1686 - Information System Monitoring", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACFI1722"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e1da06bd-25b6-4127-a301-c313d6873fff", "type": "/Microsoft.Authorization/policyDefinitions", "name": "e1da06bd-25b6-4127-a301-c313d6873fff"}, {"properties": {"displayName": "Vulnerabilities in security configuration on your machines should be remediated", "policyType": "BuiltIn", "mode": "All", "description": "Servers"}}
which do not satisfy the configured baseline will be monitored by Azure Security Center as recommendations. "metadata": {"version": "1.0.0", "category": "Security Center"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists" }}, "policyRule": {"if": {"field": "type", "in": ["Microsoft.Compute/virtualMachines", "Microsoft.ClassicCompute/virtualMachines"], "then": {"effect": parameters(effective), "details": {"type": "Microsoft.Security/complianceResults", "name": "osVulnerabilities", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}, "id": "providers/Microsoft.Authorization/policyDefinitions/e15f5d5-3ec-4e1-8661-7d1873ae6b15", "type": "Microsoft.Authorization/policyDefinitions", "name": "e15f5d5-3ec-4e1-8661-7d1873ae6b15" }, "properties": {"displayName": "Microsoft Managed Control 1047 - System Use Notification"}, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Access Control control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACFI047" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": audit }}}, "id": "providers/Microsoft.Authorization/policyDefinitions/ff66f62-a5c-4ab-90ba-90bb5b7b6f62", "type": "Microsoft.Authorization/policyDefinitions", "name": "ff66f62-a5c-4ab-90ba-90bb5b7b6f62" }, "properties": {"displayName": "Microsoft Managed Control 1276 - Alternate Processing Site Accessibility"}, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Contingency Planning control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACFI276" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": audit }}}, "id": "providers/Microsoft.Authorization/policyDefinitions/e214e56b-126-4a43-a56b-ac58809c571", "type": "Microsoft.Authorization/policyDefinitions", "name": "e214e56b-126-4a43-a56b-ac58809c571" }, "properties": {"displayName": "Microsoft Managed Control 1560 - System And Services Acquisition Policy And Procedures"}, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACFI560" }, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], "then": {"effect": audit }}}, "id": "providers/Microsoft.Authorization/policyDefinitions/e29be915-cdf-4d09-880b-048b7499d763", "type": "Microsoft.Authorization/policyDefinitions", "name": "e29be915-cdf-4d09-880b-048b7499d763" }, "properties": {"displayName": "Ensure that "HTTP Version" is the latest, if used to run the Function app", "policyType": "BuiltIn", "mode": "Indexed", "description": "Periodically, newer versions are released for HTTP either due to security flaws or to include additional functionality. Using the latest HTTP version for web apps to take advantage of security fixes, if any, and/or new functionalities of the newer version."}, "metadata": {"version": "1.0.0", "category": "App Service"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists" }}, "policyRule": {"if":}
Dependency agent deployment in virtual machine scale sets - VM Image (OS) unlisted.

Audit Dependency agent deployment in virtual machine scale sets - VM Image (OS) unlisted.

Policy:
- BuiltIn
- mode: Indexed
- description: Reports virtual machine scale sets as non-compliant if the VM Image (OS) is not in the list defined and the agent is not installed. The list of OS images will be updated over time as support is updated.

- metadata:
  - version: "1.0.1"
  - category: "Monitoring"
- parameters:
  - listOfImageIdToInclude_windows: ["optional: List of VM images that have supported Windows OS to add to scope"]
  - listOfImageIdToInclude_linux: ["optional: List of VM images that have supported Linux OS to add to scope"]

Policy Rule:
- if:
  - allOf:
    - field: "type", equals: "Microsoft.Compute/virtualMachineScaleSets"
    - not:
      - anyOf:
        - field: "Microsoft.Compute/imageId", in: 
          - [parameters("listOfImageIdToInclude_windows")]
        - field: "Microsoft.Compute/imageId", in: 
          - [parameters("listOfImageIdToInclude_linux")]
  - anyOf:
    - allOf:
      - field: "Microsoft.Compute/imagePublisher", equals: "MicrosoftWindowsServer"
    - allOf:
      - field: "Microsoft.Compute/imagePublisher", equals: "MicrosoftWindowsServer"
      - allOf:
        - field: "Microsoft.Compute/imagePublisher", equals: "MicrosoftWindowsServerHPCPack"
    - allOf:
      - field: "Microsoft.Compute/imagePublisher", equals: "MicrosoftSQLServer"
      - anyOf:
    - allOf:
      - field: "Microsoft.Compute/imagePublisher", equals: "MicrosoftRServer"
    - allOf:
      - field: "Microsoft.Compute/imagePublisher", equals: "MicrosoftVisualStudio"
    - allOf:
      - field: "Microsoft.Compute/imagePublisher", equals: "MicrosoftDynamicsAX"
      - field: "Microsoft.Compute/imageOffer", equals: "Dynamics"
      - field: "Microsoft.Compute/imageSKU", equals: "Pre-Req-AX7-Onebox-
VPN gateways should not use "basic" SKU.

**Policy Rule:**
- If:
  - `field` is of type `Microsoft.Resources/subscriptions` and `type` is not `false`.
  - `field` is of type `Microsoft.Resources/subscriptions/resourceGroups`.
  - `value` is `true`.
- Then:
  - `effect` is `audit`.

**Properties:**
- `displayName`: "Azure VPN gateways should not use "basic" SKU".
- `policyType`: "BuiltIn".
- `mode`: "All".
- `description`: "This policy ensures that VPN gateways do not use "basic" SKU.

---

MFA should be enabled on accounts with read permissions on your subscription.

**Policy Rule:**
- If:
  - `field` is of type `Microsoft.Resources/subscriptions`.
  - `field` of type `Microsoft.Security/complianceResults/resourceStatus` is in `OffByPolicy` or `Healthy`.
- Then:
  - `effect` is `AuditIfNotExists` or `Disabled`.

**Properties:**
- `displayName`: "MFA should be enabled on accounts with read permissions on your subscription".
- `policyType`: "BuiltIn".
- `mode`: "All".
- `description`: "Multi-Factor Authentication (MFA) should be enabled for all subscription accounts with read privileges to prevent a breach of accounts or resources.".

---

RDP access from the Internet should be blocked.

**Policy Rule:**
- If:
  - `field` of type `Microsoft.Network/networkSecurityGroups/securityRules/protocol` is not `-`
- Then:
  - `effect` is `Audit`.

**Properties:**
- `displayName`: "RDP access from the Internet should be blocked".
- `policyType`: "BuiltIn".
- `mode`: "All".
- `description`: "This policy audits any network security rule that allows RDP access from Internet.

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Open Source Used In SDWan 20.6.1 18036
Show audit results from Windows VMs configurations in "Security Options - Shutdown", "policyType": "BuiltIn", "mode": "All", "description": "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Shutdown". For more information on Guest Configuration policies, please visit https://aka.ms/gcpol,"
Deploy prerequisites to audit Windows VMs configurations in "Security Settings"

- Account Policies"
  - "policyType": "BuiltIn",
  - "mode": "Indexed",
  - "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Settings"

- Account Policies". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

"metadata": {"version": "1.1.0-preview", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"], "preview": true},

"parameters": {
  "EnforcePasswordHistory": {
    "type": "String",
    "metadata": {"displayName": "[Preview]: Enforce password history",
      "description": "Specifies limits on password reuse - how many times a new password must be created for a user account before the password can be repeated.",
      "defaultValue": "24"},
    "MaximumPasswordAge": {
      "type": "String",
      "metadata": {"displayName": "[Preview]: Maximum password age",
        "description": "Specifies the maximum number of days that may elapse before a user account password must be changed. The format of the value is two integers separated by a comma, denoting an inclusive range.",
        "defaultValue": "1,70"},
      "MinimumPasswordAge": {
        "type": "String",
        "metadata": {"displayName": "[Preview]: Minimum password age",
          "description": "Specifies the minimum number of days that must elapse before a user account password can be changed.",
          "defaultValue": "1"},
        "MinimumPasswordLength": {
          "type": "String",
          "metadata": {"displayName": "[Preview]: Minimum password length",
            "description": "Specifies the minimum number of characters that a user account password may contain.",
            "defaultValue": "14"},
          "PasswordMustMeetComplexityRequirements": {
            "type": "String",
            "metadata": {"displayName": "[Preview]: Password must meet complexity requirements",
              "description": "Specifies whether a user account password must be complex. If required, a complex password must not contain part of user’s account name or full name; be at least 6 characters long; contain a mix of uppercase, lowercase, number, and non-alphabetic characters.",
              "defaultValue": "1"}}}}
}
null
Deploy prerequisites to audit Windows VMs configurations in "Security Options - User Account Control". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - User Account Control". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

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**UACAdmin Approval Mode For The Built-in Administrator Account**

- **Display Name**: [Preview]: UAC: Admin Approval Mode for the built-in Administrator account
- **Default Value**: `1`
- **Description**: Specifies the behavior of Admin Approval Mode for the built-in Administrator account.

**UAC Behavior Of The Elevation Prompt For Administrators In Admin Approval Mode**

- **Display Name**: [Preview]: UAC: Behavior of the elevation prompt for administrators in Admin Approval Mode
- **Default Value**: `2`
- **Description**: Specifies the behavior of the elevation prompt for administrators.

**UAC Detect Application Installations And Prompt For Elevation**

- **Display Name**: [Preview]: UAC: Detect application installations and prompt for elevation
- **Default Value**: `1`
- **Description**: Specifies the behavior of application installation detection for the computer.

**UAC Run All Administrators In Admin Approval Mode**

- **Display Name**: [Preview]: UAC: Run all administrators in Admin Approval Mode
- **Default Value**: `1`
- **Description**: Specifies the behavior of all User Account Control (UAC) policy settings for the computer.
Open Source Used In SDWan

Mode: Expected Value, value: "[parameters("UACRunAllAdministratorsInAdminApprovalMode")]", [condition: equals(toLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines")), apiVersion:"2018-11-20")] 

"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments", name: [concat(parameters("vmName"), 

"/Microsoft.GuestConfiguration/", parameters("configurationName")]) ] 

Account Control: Admin Approval Mode for the Built-in Administrator account; Expected Value, value: [parameters("UACAdminApprovalModeForTheBuiltInAdministratorAccount")]

Account Control: Behavior of the elevation prompt for administrators in Admin Approval Mode: Expected Value, value: [parameters("UACBehaviorOfTheElevationPromptForAdministratorsInAdminApprovalMode")]

Account Control: Detect application installations and prompt for elevation; Expected Value, value: [parameters("UACDetectApplicationInstallationsAndPromptForElevation")]

Account Control: Run all administrators in Admin Approval Mode: Expected Value, value: [parameters("UACRunAllAdministratorsInAdminApprovalMode")]


Managed Control 1381 - Incident Response Plan, policyType: "Static", mode: "Indexed", description: "Microsoft implements this Incident Response control", metadata: {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1381" }, policyRule:
Managed Control 1421 - Maintenance

Microsoft Managed Control 1421 - Maintenance Personnel

Responsible for implementing this Maintenance control

Description:

Microsoft implements this Maintenance control.

Properties:

- **DisplayName**: Microsoft Managed Control 1421 - Maintenance Personnel
- **PolicyType**: Static
- **Mode**: Indexed
- **Category**: Regulatory Compliance
- **Description**: Microsoft implements this Maintenance control.
- **Metadata**: Version: 1.0.0
- **AdditionalMetadataId**: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1421
- **PolicyRule**: Applies to resources in the specified locations.

Managed Control 1716 - Software, Firmware, And Information Integrity | Integration Of Detection And Response

Microsoft Managed Control 1716 - Software, Firmware, And Information Integrity | Integration Of Detection And Response

Responsible for implementing this System and Information Integrity control

Description:

Microsoft implements this System and Information Integrity control.

Properties:

- **DisplayName**: Microsoft Managed Control 1716 - Software, Firmware, And Information Integrity | Integration Of Detection And Response
- **PolicyType**: Static
- **Mode**: Indexed
- **Category**: Regulatory Compliance
- **Description**: Microsoft implements this System and Information Integrity control.
- **Metadata**: Version: 1.0.0
- **AdditionalMetadataId**: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1716
- **PolicyRule**: Applies to resources in the specified locations.

Managed Control 1023 - Account Management | Usage Conditions

Microsoft Managed Control 1023 - Account Management | Usage Conditions

Responsible for implementing this Access Control control

Description:

Microsoft implements this Access Control control.

Properties:

- **DisplayName**: Microsoft Managed Control 1023 - Account Management | Usage Conditions
- **PolicyType**: Static
- **Mode**: Indexed
- **Category**: Regulatory Compliance
- **Description**: Microsoft implements this Access Control control.
- **Metadata**: Version: 1.0.0
- **AdditionalMetadataId**: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1023
- **PolicyRule**: Applies to resources in the specified locations.

Allowed locations

This policy enables you to restrict the locations your organization can specify when deploying resources. Use to enforce your geo-compliance requirements. Excludes resource groups, Microsoft.AzureActiveDirectory/b2cDirectories, and resources that use the "global" region.

Properties:

- **DisplayName**: Allowed locations
- **PolicyType**: BuiltIn
- **Mode**: Indexed
- **Description**: This policy enables you to restrict the locations your organization can specify when deploying resources.
- **Metadata**: Version: 1.0.0
- **Parameters**: listOfAllowedLocations
- **PolicyRule**: Applies to resources in the specified locations.

Managed Control 1296 - Information System Recovery And Reconstitution | Transaction

Microsoft Managed Control 1296 - Information System Recovery And Reconstitution | Transaction

Responsible for implementing this Information System Recovery and Reconstitution control

Description:

Microsoft implements this Information System Recovery and Reconstitution control.

Properties:

- **DisplayName**: Microsoft Managed Control 1296 - Information System Recovery And Reconstitution | Transaction
- **PolicyType**: Static
- **Mode**: Indexed
- **Category**: Regulatory Compliance
- **Description**: Microsoft implements this Information System Recovery and Reconstitution control.
- **Metadata**: Version: 1.0.0
- **AdditionalMetadataId**: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1296
- **PolicyRule**: Applies to resources in the specified locations.

Open Source Used In SDWan 20.6.1 18044
Managed Control 1499 - Rules Of Behavior

Microsoft implements this Planning control, metadata: ("version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1499"), "policyRule": "{"if": ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], "value": false, "equals": true}], "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e59671ab-9720-4ee2-9c60-170e8c82251e", "type": "Microsoft.Authorization/policyDefinitions", "name": "e59671ab-9720-4ee2-9c60-170e8c82251e"}, {"properties": {"displayName": "[Preview]: Deploy prerequisites to audit Windows VMs configurations in "Security Options - Accounts"."}, "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Accounts". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.1.0-preview", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"], "preview": true}, "parameters": {"AccountsGuestAccountStatus": {"type": "String", "metadata": {"displayName": "[Preview]: Accounts: Guest account status", "description": "Specifies whether the local Guest account is disabled."}, "defaultValue": "0"}, "policyRule": "{"if": ["anyOf": ["allOf": ["field": "type", "equals": "Microsoft.Compute/virtualMachines"], "anyOf": ["field": "Microsoft.Compute/imagePublisher", "in": ["esri", "incredibuild", "MicrosoftDynamicsAX", "MicrosoftSharepoint", "MicrosoftVisualStudio", "MicrosoftWindowsDesktop", "MicrosoftWindowsServerHPCPack"], "allOf": ["field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftWindowsServer"], "field": "Microsoft.Compute/imageSKU", "notLike": ["2008*"]}], "allOf": ["field": "Microsoft.Compute/imagePublisher", "equals": "MicrosoftSQLServer"], "field": "Microsoft.Compute/imageOffer", "notLike": ["SQL2008*"]], "allOf": ["field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-dsvm"], "field": "Microsoft.Compute/imageOffer", "equals": "dsvm-windows"], "allOf": ["field": "Microsoft.Compute/imagePublisher", "equals": "microsoft-ads"], "field": "Microsoft.Compute/imageOffer", "in": ["standard-data-science-vm", "windows-data-science-vm"]], "allOf": ["field": "Microsoft.Compute/imagePublisher", "equals": "batch"], "allOf": ["field": "Microsoft.Compute/imagePublisher", "equals": "rendering-windows2016"], "allOf": ["field": "Microsoft.Compute/imagePublisher", "equals": "center-for-internet-security-inc"], "allOf": ["field": "Microsoft.Compute/imageOffer", "like": "cis-windows-server-2016*"], "allOf": ["field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"], "field": "Microsoft.Compute/imageOffer", "like": "bosh-windows-server*"], "allOf": ["field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"], "field": "Microsoft.Compute/imageOffer", "like": "ad*"], "allOf": ["anyOf": ["field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": false], "field": "Microsoft.Compute/virtualMachine
Open Source Used In SDWan 20.6.1

Audit Web Applications that are not using latest supported Node.js Framework. "policyType": "BuiltIn", "mode": "All", "description": "Use the latest supported Node.js version for the latest security classes. Using older classes and types can make your application vulnerable.", "metadata": {"version": "1.0.0-deprecated"}, "category": "Security Center", "deprecated": true }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": [{"AuditIfNotExists", "Disabled"}, {"defaultValue": "AuditIfNotExists"}], "policyRule": {"if": {"allof": [{"field": "type", "equals": "microsoft.Web/sites"}, {"anyof": [{"field": "kind", "equals": "app,linux"}, {"field": "kind", "equals": "app,linux,container"}]}, {"then": {"effect": "[parameters(effect)]"}, "details": {"type": "Microsoft.Security/complianceResults", "name": "UseLatestNodeJS", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/5b4753bb0a08", "parameters": {"displayName": "Microsoft Managed Control 1465 - Monitoring Physical Access | Monitoring Physical Access To Information Systems", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1465"}, "policyRule": {"if": {"allof": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], {"then": {"effect": audit}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/e6e41554-86b5-4537-9f7f-4fc41a1d1640", "parameters": {"displayName": "Subnets should be associated with a Network Security Group", "policyType": "BuiltIn", "mode": "All", "description": "Protect your subnet from potential threats by restricting access to it with a Network Security Group (NSG). NSGs contain a list of Access Control List (ACL) rules that allow or deny network traffic to your subnet.", "metadata": {"version": "2.0.0", "category": "Security Center"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}}, "allowedValues": [{"AuditIfNotExists", "Disabled"}, {"defaultValue": "AuditIfNotExists"}], "policyRule": {"if": {"field": "type", "equals": "Microsoft.Network/virtualNetworks/subnets"}, {"then": {"effect": "[parameters(effect)]"}, "details": {"type": "Microsoft.Security/complianceResults", "name": "networkSecurityGroupsOnSubnets", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["NotApplicable", "OffByPolicy", "Healthy"]}}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/e71308d3-144b-4262-b144-efdc3ce90517", "parameters": {"displayName": "Microsoft Managed Control 1567 - System Development Life Cycle", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1567"}, "policyRule": {"if": {"allof": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}], {"then": {"effect": audit}}], "id": "/providers/Microsoft.Authorization/policyDefinitions/e72edbf6-aa61-436d-a227-0f32b77194b3", "parameters": {"displayName": "Microsoft Authorization/policyDefinitions", "name": "e72edbf6-aa61-436d-a227-0f32b77194b3"}

18047
Microsoft Managed Control 1311 - Identifier Management, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1311"}, "policyRule": {"if": {["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], "value": "false", "equals": "true"]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e7568f69-0c9e-4ea3-9ec3-9e567d14f3c6", "type": "Microsoft.Authorization/policyDefinitions", "name": "e7568f69-0c9e-4ea3-9ec3-9e567d14f3c6"}, "properties": {"displayName": "Advanced Threat Protection types should be set to "All" in SQL server Advanced Data Security settings", "policyType": "BuiltIn", "mode": "Indexed", "description": "It is recommended to enable all Advanced Threat Protection types on your SQL servers. Enabling all types protects against SQL injection, database vulnerabilities, and any other anomalous activities.", "metadata": {"version": "1.0.0", "category": "SQL"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}}, "policyRule": {"if": {"field": "type", "equals": "Microsoft.Sql/servers"}, "then": {"effect": ["parameters(''effect'')"], "details": {"type": "Microsoft.Sql/servers/securityAlertPolicies", "name": "default", "existenceCondition": {"field": "Microsoft.Sql/servers/securityAlertPolicies/disabledAlerts[*]", "equals": "[]"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e756b945-1b1b-480b-8de8-9a0859d5f7ad", "type": "Microsoft.Authorization/policyDefinitions", "name": "e756b945-1b1b-480b-8de8-9a0859d5f7ad"}, "properties": {"displayName": "Microsoft Managed Control 1154 - System Interconnections | Unclassified Non-National Security System Connections", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1154"}, "policyRule": {"if": {["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]], "value": "false", "equals": "true"]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e757ceb9-93b3-45fe-a4f4-f43f6f1ac5a", "type": "Microsoft.Authorization/policyDefinitions", "name": "e757ceb9-93b3-45fe-a4f4-f43f6f1ac5a"}, "properties": {"displayName": "Allowed locations for resource groups", "policyType": "BuiltIn", "mode": "All", "description": "This policy enables you to restrict the locations your organization can create resource groups in. Use to enforce your geo-compliance requirements.", "metadata": {"version": "1.0.0", "category": "General"}, "parameters": {"listOfAllowedLocations": {"type": "Array", "metadata": {"description": "The list of locations that resource groups can be created in."}, "strongType": {"location": "Allowed locations"}}}, "policyRule": {"if": {["allOf": ["field": "location", "notIn": ["parameters(''listOfAllowedLocations'')"]], "then": {"effect": "deny"}]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e765b5de-1225-4ba3-bd56-1ac6695a988", "type": "Microsoft.Authorization/policyDefinitions", "name": "e765b5de-1225-4ba3-bd56-1ac6695a988"}, "properties": {"displayName": "Microsoft Managed Control 1273 - Alternate Processing Site", "policyType": "Static", "mode": "Indexed", "description": "Microsoft
implements this Contingency Planning control"), "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1273"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e77fcb2-a1e8-44f1-860e-ed6583761e65", "type": "Microsoft.Authorization/policyDefinitions", "name": "e77fcb2-a1e8-44f1-860e-ed6583761e65"}, {"properties": {"displayName": "[Deprecated]: Audit Web Sockets state for a Web Application", "policyType": "BuiltIn", "mode": "All", "description": "The Web Sockets protocol is vulnerable to different types of security threats.

Use of Web Sockets within a web application must be carefully reviewed."}, "metadata": {"version": "1.0.0-deprecated", "category": "Security Center", "deprecated": true}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "microsoft.Web/sites"}, {"anyof": [{"field": "kind", "equals": "app"}, {"field": "kind", "equals": "WebApp"}, {"field": "kind", "equals": "app,linux"}, {"field": "kind", "equals": "app,linux,container"}]}, "the n": {"effect": {"parameters"} }, "details": {"type": "Microsoft.Security/complianceResults", "name": "DisableWebSockets", "existenceCondition": {"field": "Microsoft.Security/complianceResults/resourceStatus", "in": ["OffByPolicy", "Healthy"]}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e797f851-8be7-4c40-bb56-2e3395215b0e", "type": "Microsoft.Authorization/policyDefinitions", "name": "e797f851-8be7-4c40-bb56-2e3395215b0e"}, {"properties": {"displayName": "Microsoft Managed Control 1169 - Continuous Monitoring | Trend Analyses", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Security Assessment and Authorization control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance"}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1169"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": "false", "equals": "true"}]}, "then": {"effect": "audit"}}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e7ba2cb3-5675-4468-8b50-8486bdd998a5", "type": "Microsoft.Authorization/policyDefinitions", "name": "e7ba2cb3-5675-4468-8b50-8486bdd998a5"}, {"properties": {"displayName": "Enforce SSL connection should be enabled for MySQL database servers", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits any MySQL server that is not enforcing SSL connection. Azure Database for MySQL supports connecting your Azure Database for MySQL server to client applications using Secure Sockets Layer (SSL). Enforcing SSL connections between your database server and your client applications helps protect against "man in the middle" attacks by encrypting the data stream between the server and your application."}, "metadata": {"version": "1.0.0", "category": "SQL"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["Audit", "Disabled"], "defaultValue": "Audit"}}, "policyRule": {"if": {"allOf": [{"field": "type", "equals": "Microsoft.DBforMySQL/servers"}, {"field": "Microsoft.DBforMySQL/servers/sslEnforcement", "exists": true}, {"field": "Microsoft.DBforMySQL/servers/sslEnforcement", "notEquals": "Enabled"}]}, "then": {"effect": {"parameters"} }}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/e802a67a-daf5-4436-9ea6-f6d821dd0c5d", "type": "Microsoft.Authorization/policyDefinitions", "name": "e802a67a-daf5-4436-9ea6-f6d821dd0c5d"}, {"properties": {"displayName": "Microsoft
Managed Control 1237 - Software Usage Restrictions | Open Source

Microsoft implements this Configuration Management control. The metadata: 

- **Policy**: "PolicyType": "Static", 
- **Mode**: "Mode": "Indexed", 
- **Description**: "Description": "Managed Control 1237 - Software Usage Restrictions | Open Source Software","PolicyType": "Static", "Mode": "Indexed", "Description": "Managed Control 1237 - Software Usage Restrictions | Open Source Software".

- **Policy Rule**: "PolicyRule": "If" if "allOf": 
  - "field": "type", "in": "[Microsoft.Resources/subscriptions, Microsoft.Resources/subscriptions/resourceGroups]", "value": false, "equals": true 
  - "effect": "audit"

- **Id**: 
  - /providers/Microsoft.Authorization/policyDefinitions/e80b6812-0bfa-4383-8223-cdd86a46a890
  - /providers/Microsoft.Authorization/policyDefinitions/e80b6812-0bfa-4383-8223-cdd86a46a890

- **Properties**: 
  - "displayName": "Vulnerabilities in container security configurations should be remediated", 
  - "PolicyType": "BuiltIn", "mode": "All", "description": "Audit vulnerabilities in security configuration on machines with Docker installed

and display as recommendations in Azure Security Center.

- **Parameters**: 
  - "effect": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, 
  - allowedValues: ["AuditIfNotExists", "Disabled"], default value: "AuditIfNotExists"

- **Policy Rule**: "If": "AllOf": 
  - "then": "effect": ["parameters". "effect"]

- **Id**: /providers/Microsoft.Authorization/policyDefinitions/e8cbc669-f12d-49eb-93e7-9273119e9933

- **Properties**: 
  - "displayName": "Deploy Diagnostic Settings for Data Lake Storage Gen1 to Event Hub", 
  - "PolicyType": "BuiltIn", "mode": "Indexed", "description": "Deploys the diagnostic settings for Data Lake Storage Gen1 to stream to a regional Event Hub when any Data Lake Storage Gen1 which is missing this diagnostic setting is created or updated.

- **Metadata**: 
  - "version": "2.0.0", "category": "Monitoring", 
  - parameters: 
    - "String", "metadata": {"displayName": "Enabled or disable the execution of the policy"}, 
    - allowedValues: ["DeployIfNotExists", "Disabled"], default value: "DeployIfNotExists"

- **Profile Name**: 
  - "String", "metadata": {"displayName": "Profile name", "description": "The diagnostic settings profile name"}, 
  - default value: "setbypolicy_eventHub"

- **Event Hub Rule Id**: "EventHubRuleId": "String", "metadata": {"displayName": "Event Hub Authorization Rule Id", "description": "The Event Hub authorization rule Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. e.g. /subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/namespaces/{Event Hub namespace}/authorizationrules/{authorization rule}"

- **Event Hub Location**: "String", "metadata": {"displayName": "Event Hub Location", "description": "The location the Event Hub resides in. Only Data Lake Storage in this location will be linked to this Event Hub.

- **metricsEnabled**: "String", "metadata": {"displayName": "Enable metrics", "description": "Whether to enable metrics stream to the Event Hub"}

- True or
Managed Control 1502 - Rules Of Behavior | Social Media And Networking Restrictions, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Planning control", "metadata": "{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1502" }, "policyRule": "{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e8f6bddd-6d67-439a-88d4-c5fe39a79341" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "e8f6bddd-6d67-439a-88d4-c5fe39a79341" }, "properties": { "displayName": "Microsoft Managed Control 1502 - Rules Of Behavior | Social Media And Networking Restrictions" }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e8f6bddd-6d67-439a-88d4-c5fe39a79341" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "e8f6bddd-6d67-439a-88d4-c5fe39a79341" }, {"properties": {"displayName": "Microsoft Managed Control 1723 - Information Input Validation", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": "{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1723" }, "policyRule": "{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e91927a0-ac1d-44a0-95f8-5185f9dce9f9" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "e91927a0-ac1d-44a0-95f8-5185f9dce9f9" }, {"properties": {"displayName": "Microsoft Managed Control 1200 - Security Impact Analysis", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": "{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1200" }, "policyRule": "{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e98fe9d7-2ed3-44f8-93b7-2d4ca69783ff" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "e98fe9d7-2ed3-44f8-93b7-2d4ca69783ff" }, {"properties": {"displayName": "Microsoft Managed Control 1487 - Alternate Work Site", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Physical and Environmental Protection control", "metadata": "{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1487" }, "policyRule": "{ "if": { "allOf": [ { "field": "type", "in": [ "Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"] }, { "value": "false", "equals": "true" } ] }, "then": { "effect": "audit" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/e9c3371d-c30c-4f58-abd9-30b8a8199571" }, "type": "Microsoft.Authorization/policyDefinitions", "name": "e9c3371d-c30c-4f58-abd9-30b8a8199571" }, {"properties": {"displayName": "Remote debugging should be turned off for API Apps", "policyType": "BuiltIn", "mode": "Indexed", "description": "Remote debugging requires inbound ports to be opened on API apps. Remote debugging should be turned off.", "metadata": "{"version": "1.0.0", "category": "App Service" }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the"}}}},
policy"],"allowedValues":{"AuditIfNotExists","Disabled"},"defaultValue":"AuditIfNotExists"}},"policyRule":{"if":{"allOf":{"field":"type","equals":"Microsoft.Web/sites"},"details":{"type":"Microsoft.Web/sites/config","name":"web","existenceCondition":{"field":"Microsoft.Web/sites/config/remoteDebuggingEnabled","equals":"false"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5e98d085-d9cc-4b17-9ddc-05971f01f19e"},"type":"Microsoft.Authorization/policyDefinitions","name":"5e98d085-d9cc-4b17-9ddc-05971f01f19e"},"properties":{"displayName":"Microsoft Managed Control 1363 - Incident Handling | Automated Incident Handling Processes","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Incident Response control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1363"},"policyRule":{"if":{"allOf":{"field":"type","equals":"Microsoft.Web/sites"},"details":{"type":"Microsoft.Web/sites/config","name":"web","existenceCondition":{"field":"Microsoft.Web/sites/config/remoteDebuggingEnabled","equals":"false"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5e98d085-d9cc-4b17-9ddc-05971f01f19e"},"properties":{"displayName":"Inherit a tag from the resource group if missing","policyType":"BuiltIn","mode":"Indexed","description":"Adds the specified tag with its value from the parent resource group when any resource missing this tag is created or updated. Existing resources can be remediated by triggering a remediation task. If the tag exists with a different value it will not be changed.","metadata":{"version":"1.0.0","category":"Tags"},"parameters":{"tagName":{"type":"String"},"metadata":{"displayName":"Tag Name","description":"Name of the tag, such as "environment"."}},"policyRule":{"if":{"allOf":{"field":"concat(tags["tagName"],
parameters["tagName"])","exists":"false"},"details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"],"operations":{"add","field":"concat(tags["tagName"],
parameters["tagName"])","exists":false,"metadata":{"displayName":"Key Vault should use a virtual network service endpoint","policyType":"BuiltIn","mode":"Indexed","description":"This policy audits any Key Vault not configured to use a virtual network service endpoint.","metadata":{"version":"1.0.0","category":"Network"},"parameters":{"effect":{"type":"String"},"metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":{"Audit","Disabled"},"defaultValue":"Audit"}},"policyRule":{"if":{"anyOf":{"field":"Microsoft.KeyVault/vaults/defaultAclAction","notEquals":"Deny"},"details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/"},"exists":false}},"then":{"effect":"parameters["effect"]"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/5e98d085-d9cc-4b17-9ddc-05971f01f19e"},"type":"Microsoft.Authorization/policyDefinitions","name":"5e98d085-d9cc-4b17-9ddc-05971f01f19e"}
implements this Maintenance control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1422"},"policyRule ":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":false,"equals":true}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/ea556850-838d-4a37-8ce5-9d7642f95e11","type":"Microsoft.Authorization/policyDefinitions","name":"ea556850-838d-4a37-8ce5-9d7642f95e11"}, {"properties": {"displayName": "Microsoft Managed Control 1542 - Risk Assessment","policyType": "Static","mode": "Indexed","description": "Microsoft implements this Risk Assessment control","metadata":{"version": "1.0.0","category": "Regulatory Compliance","additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1542"},"policyRule ":{"if":{"allOf": [{"field":"type","in": ["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/resourceGroups"]}, {"value":false,"equals":true}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/eab340d0-3d55-4826-a0e5-feefbe0b131d","type":"Microsoft.Authorization/policyDefinitions","name":"eab340d0-3d55-4826-a0e5-feefbe0b131d"}, {"properties": {"displayName": "Ensure Function app has ''Client Certificates (Incoming client certificates)'' set to "On"","policyType": "BuiltIn","mode": "Indexed","description": "Client certificates allow for the app to request a certificate for incoming requests. Only clients that have a valid certificate will be able to reach the app.","metadata":{"version": "1.0.0","category": "App Service"},"parameters": {"effect": {"type": "String","metadata": {"displayName": "Effect","description": "Enable or disable the execution of the policy"},"allowedValues": ["Audit","Disabled"],"defaultValue": "Audit"}},"policyRule":{"if":{"allOf": [{"field": "type","equals": "Microsoft.Web/sites"}, {"field": "kind","like": "functionapp*"}, {"field": "Microsoft.Web/sites/clientCertEnabled","equals":false}]},"then":{"effect": {"parameters("effect")": []}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/eb4d9508-cbf0-4a3c-bb5c-6c95b159f3fb","type":"Microsoft.Authorization/policyDefinitions","name":"eb4d9508-cbf0-4a3c-bb5c-6c95b159f3fb"}, {"properties": {"displayName": "Microsoft Managed Control 1064 - Remote Access | Privileged Commands / Access","policyType": "Static","mode": "Indexed","description": "Microsoft implements this Access Control control","metadata":{"version": "1.0.0","category": "Regulatory Compliance","additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1064"},"policyRule ":{"if":{"allOf": [{"field": "type","equals": "Microsoft.Web/sites"}, {"field": "kind","like": "functionapp*"}, {"field": "Microsoft.Web/sites/clientCertEnabled","equals":false}]},"then":{"effect": {"parameters("effect")": []}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/eb627cc6-3a9d-46b5-96b7-5fca49178a37","type":"Microsoft.Authorization/policyDefinitions","name":"eb627cc6-3a9d-46b5-96b7-5fca49178a37"}, {"properties": {"displayName": "Log checkpoints should be enabled for PostgreSQL database servers","policyType": "BuiltIn","mode": "Indexed","description": "This
Open Source Used In SDWan 20.6.1 18055

policy helps audit any PostgreSQL databases in your environment without log_checkpoints setting enabled.

or disable the execution of the policy.

connections should be enabled for PostgreSQL database servers.

policy helps audit any PostgreSQL databases in your environment without log_connections setting enabled.

or disable the execution of the policy.

duration should be enabled for PostgreSQL database servers.

policy helps audit any PostgreSQL databases in your environment without log_duration setting enabled.

or disable the execution of the policy.
Deprecated accounts with owner permissions should be removed from your subscription. The policy creates a Guest Configuration assignment to audit Linux virtual machines that allow remote connections from accounts without passwords. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Deploy prerequisites to audit Windows VMs configurations in "Administrative Templates - Control Panel". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Administrative Templates - Control Panel". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Open Source Used In SDWan 20.6.1 18057
201*"}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "pivotal"}, {"field": "Microsoft.Compute/imageOffer", "like": "bosh-windows-server-*"]}], {"allOf": [{"field": "Microsoft.Compute/imagePublisher", "equals": "cloud-infrastructure-services"}, {"field": "Microsoft.Compute/imageOffer", "like": "ad*"}]}, {"allOf": [{"field": "Microsoft.Compute/virtualMachines/osProfile.windowsConfiguration", "exists": true}, {"field": "Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType", "like": "Windows*"}], {"anyOf": [{"field": "Microsoft.Compute/imageSKU", "exists": false}, {"allOf": [{"field": "Microsoft.Compute/imageSKU", "notLike": "2008*"}], {"field": "Microsoft.Compute/imageOffer", "notLike": "SQL2008*"}]}, {"allOf": [{"field": "Microsoft.HybridCompute/machines"}, {"field": "Microsoft.HybridCompute/imageOffer", "like": "windows*"]}], {"then": {"effect": "deployIfNotExists", "details": {"roleDefinitionIds": ["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c"], "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "AzureBaseline_AdministrativeTemplatesControlPanel", "deployment": {"properties": {"mode": "incremental", "parameters": {"vmName": {"value": [parameters("vmName")], "location": [parameters("location")], "type": [parameters("type")], "configurationName": [parameters("configurationName")], "resources": ["Microsoft.GuestConfiguration","parameters("configurationName")", "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": 1."}], {"condition": [equals(toLower(parameters("type")), toLower("Microsoft.HybridCompute/machines"))], "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments", "name": [concat(parameters("vmName")), tolower("Microsoft.GuestConfiguration"), parameters("configurationName")], "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": 1."}], {"condition": [equals(toLower(parameters("type")), toLower("Microsoft.HybridCompute/virtualMachines"))], "apiVersion": "2018-11-20", "type": "Microsoft.HybridCompute/virtualMachines/providers/guestConfigurationAssignments", "name": [concat(parameters("vmName")), tolower("Microsoft.GuestConfiguration"), parameters("configurationName")], "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": 1."}], {"condition": [equals(toLower(parameters("type")), toLower("Microsoft.HybridCompute/virtualMachines"))], "apiVersion": "2019-07-01", "type": "Microsoft.HybridCompute/virtualMachines", "identity": {"type": "SystemAssigned"}, "name": [parameters("vmName")], "location": [parameters("location")], {"condition": [equals(toLower(parameters("type")), toLower("Microsoft.HybridCompute/virtualMachines"))], "apiVersion": "2015-05-01-"}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}\"}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}\nOpen Source Used In SDWan 20.6.1 18058
Managed Control 1241 - User-Installed Software | Alerts For Unauthorized Installations, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1241" }, "policyRule": {"if": 
"then": 
{"effect": "audit" }},
"id": "/providers/Microsoft.Authorization/policyDefinitions/eca4d7b2-65e2-4e04-95d4-c68606b063c3", "properties": {"displayName": "Deploy Diagnostic Settings for Key Vault to Event Hub", "policyType": "BuiltIn", "mode": "Indexed", "description": "Deploys the diagnostic settings for Key Vault to stream to a regional Event Hub when any Key Vault which is missing this diagnostic settings is created or updated.", "metadata": {"version": "2.0.0", "category": "Key Vault" }, "parameters": {"profileName": {"type": "String", "metadata": {"displayName": "Profile name", "description": "The diagnostic settings profile name" }}, "defaultValue": "setbypolicy" }, "eventHubRuleId": {"type": "String", "metadata": {"displayName": "Event Hub Authorization Rule Id", "description": "The Event Hub authorization rule Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. E.g. /subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/Namespaces/{Event Hub namespace}/authorizationrules/{authorization rule}"}, "strongType": "Microsoft.EventHub/Namespaces/AuthorizationRules", "assignPermissions": true }, "eventHubLocation": {"type": "String", "metadata": {"displayName": "Event Hub Location", "description": "The location the Event Hub resides in. Only Key Vaults in this location will be linked to this Event Hub" }, 
"strongType": "location"}, 
"defaultValue": ", "metricsEnabled": {"type": "String", "metadata": {"displayName": "Enable metrics", "description": "Whether to enable metrics stream to the Event Hub" }, 
- True or
Open Source Used In SDWan
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event Hub Authorization Rule Id</td>
<td>The Event Hub authorization rule Id for Azure Diagnostics. The authorization rule needs to be at Event Hub namespace level. E.g. <code>/subscriptions/{subscription Id}/resourceGroups/{resource group}/providers/Microsoft.EventHub/namespaces/{Event Hub namespace}/authorizationrules/{authorization rule}</code></td>
</tr>
<tr>
<td>Event Hub Location</td>
<td>The location the Event Hub resides in. Only Stream Analytics in this location will be linked to this Event Hub.</td>
</tr>
<tr>
<td>Metrics Enabled</td>
<td>Whether to enable metrics stream to the Event Hub - True or False</td>
</tr>
<tr>
<td>Logs Enabled</td>
<td>Whether to enable logs stream to the Event Hub - True or False</td>
</tr>
</tbody>
</table>

```json
{
    "name":"Microsoft.StreamAnalytics/streamingjobs/providers/diagnosticSettings",
    "apiVersion":"2017-05-01-preview",
    "name":concat(parameters(''resourceName''),''/'', ''Microsoft.Insights/'', parameters(''profileName'')),
    "location":parameters(''location''),
    "dependsOn":[]
}
```
Managed Control 1089 - Security Awareness Training

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Awareness and Training control.
- **Metadata**: Version: 1.0.0, Category: Regulatory Compliance
- **Policy Rule**: If the condition is not met, the effect is audit.

Managed Control 1314 - Identifier Management

- **Policy Type**: Static
- **Mode**: Indexed
- **Description**: Microsoft implements this Identification and Authentication control.
- **Metadata**: Version: 1.0.0, Category: Regulatory Compliance
- **Policy Rule**: If the condition is not met, the effect is audit.

Managed Control 1128 - Time Stamps

- **Policy Type**: BuiltIn
- **Mode**: Indexed
- **Description**: Audit

Azure SQL servers which do not have recurring vulnerability assessment scans enabled. Vulnerability assessment can discover, track, and help you remediate potential database vulnerabilities.

Open Source Used In SDWan 20.6.1 18062

Management services should use a virtual
network. The policy checks if the Microsoft.ApiManagement/service/sku.name field exists and is equal to one of the evaluated SKU names. If the policy is enabled, it will affect the specified APIs, either enabling or disabling the execution of the policy according to the specified effect.

This policy is designed to manage the configuration of APIs in Microsoft API Management services, ensuring that the virtual network is set to a specified type or disabled. The policy is evaluated against specific API Management SKUs and is intended to streamline the management of API configurations in Azure environments.
Managed Control 1012 - Account


Managed Control 1358 - Incident Response

Testing, "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Incident Response control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1358" }, "policyRule": {"if": "[allOf: [{"field": "type", "equals": "Microsoft.Authorization/policyDefinitions/effbaeef-5bf4-400d-895e-ef8cb0e64c7" }]]", "then": "[false]" }, "id": "/providers/Microsoft.Authorization/policyDefinitions/effbaeef-5bf4-400d-895e-ef8cb0e64c7", "name": "Microsoft.Authorization/policyDefinitions/effbaeef-5bf4-400d-895e-ef8cb0e64c7", "properties": {"displayName": "Ensure that Register with Azure Active Directory is enabled on Function App", "policyType": "BuiltIn", "mode": "Indexed", "description": "Managed service identity in App Service makes the app more secure by eliminating secrets from the app, such as credentials in the connection strings. When registering with Azure Active Directory in the app service, the app will connect to other Azure services securely without the need of username and passwords", "metadata": {"version": "1.0.0", "category": "App Service" }, "parameters": {"effect": "[false]", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy" }, "allowedValues": ["AuditIfNotExists", "Disabled" ], "defaultValue": "AuditIfNotExists" }, "policyRule": {"if": "[allOf: [{"field": "type", "equals": "Microsoft.Web/sites" }, {"field": "kind", "like": "functionapp*" }]]", "then": "[false]", "details": {"type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"field": "Microsoft.Web/sites/config/web.managedServiceIdentityId", "exists": "true" } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/f0473e7a-a1ba-4e86-af82-e829e11b01d8", "name": "Microsoft.Authorization/policyDefinitions/f0473e7a-a1ba-4e86-af82-e829e11b01d8", "properties": {"displayName": "Deploy prerequisites to audit Windows VMs that have the specified applications installed", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy creates a Guest Configuration assignment to audit Windows virtual machines that have the specified applications installed. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata": {"version": "1.1.0", "category": "Guest Configuration" }, "parameters": {"ApplicationName": "[type": "String", "metadata": {"displayName": "Application Name" } ] }, "requiredProviders": ["Microsoft.GuestConfiguration"] } } 

Open Source Used In SDWan 20.6.1 18065
names (supports wildcards)","description":"A semicolon-separated list of the
names of the applications that should not be installed. e.g. ''Microsoft SQL
Server 2014 (64-bit); Microsoft Visual Studio Code'' or ''Microsoft SQL Server
2014*'' (to match any application starting with ''Microsoft SQL Server
2014'')"}}},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"}
,{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","Mic
rosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]},{"
allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"field":"Microsoft.Co
mpute/imageSKU","notLike":"2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"Micros
oftSQLServer"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"allOf":[{"field":"Microsoft
ageOffer","equals":"renderingwindows2016"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-securityinc"},{"field":"Microsoft.Compute/imageOffer","like":"cis-windows-server201*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"pivotal"},{"field":"Microsoft.Compute/
imageOffer","like":"bosh-windowsserver*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructureservices"},{"field":"Microsoft.Compute/imageOffer","like":"ad*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Comp
ute/virtualMachines/osProfile.windowsConfiguration","exists":"true"},{"field":"Microsoft.Compute/virtualMachine
s/storageProfile.osDisk.osType","like":"Windows*"}]},{"anyOf":[{"field":"Microsoft.Compute/imageSKU","exists
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ageOffer","notLike":"SQL2008*"}]}]}]}]}]},{"allOf":[{"field":"type","equals":"Microsoft.HybridCompute/machin
es"},{"field":"Microsoft.HybridCompute/imageOffer","like":"windows*"}]}]},"then":{"effect":"deployIfNotExists"
,"details":{"roleDefinitionIds":["/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab8820f7382dd24c"],"type":"Microsoft.GuestConfiguration/guestConfigurationAssignments","name":"NotInstalledAppl
ication","existenceCondition":{"field":"Microsoft.GuestConfiguration/guestConfigurationAssignments/parameterHa
sh","equals":"[base64(concat(''[InstalledApplication]NotInstalledApplicationResource1;Name'',
''='',
parameters(''ApplicationName'')))]"},"deployment":{"properties":{"mode":"incremental","parameters":{"vmName":
{"value":"[field(''name'')]"},"location":{"value":"[field(''location'')]"},"type":{"value":"[field(''type'')]"},"configurati
onName":{"value":"NotInstalledApplication"},"ApplicationName":{"value":"[parameters(''ApplicationName'')]"}},
"template":{"$schema":"https://schema.management.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{
"type":"string"},"type":{"type":"string"},"configurationName":{"type":"string"},"ApplicationName":{"type":"string
"}},"resources":[{"condition":"[equals(toLower(parameters(''type'')),
toLower(''microsoft.hybridcompute/machines''))]","apiVersion":"2018-1120","type":"Microsoft.HybridCompute/machines/providers/guestConfigurationAssignments","name":"[concat(para
meters(''vmName''),
''/Microsoft.GuestConfiguration/'',
parameters(''configurationName''))]","location":"[parameters(''location'')]","properties":{"guestConfiguration":{"na
me":"[parameters(''configurationName'')]","version":"1.*","configurationParameter":[{"name":"[InstalledApplicatio
n]NotInstalledApplicationResource1;Name","value":"[parameters(''ApplicationName'')]"}]}}},{"condition":"[equal
s(toLower(parameters(''type'')),
toLower(''Microsoft.Compute/virtualMachines''))]","apiVersion":"2018-1120","type":"Microsoft.Compute/virtualMachines/providers/guestConfigurationAssignments","name":"[concat(para

Open Source Used In SDWan 20.6.1 18066


meters('vmName'),
"/Microsoft.GuestConfiguration", parameters('configurationName'))], "location": [parameters("location")], "properties": {"guestConfiguration": {"name": [parameters("configurationName")], "version": "1.*", "configurationParameter": {"name": "[InstalledApplicationName]NotInstalledApplicationResource1;Name", "value": [parameters("ApplicationName")]]}}, "condition": [equalstoLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines")), "apiVersion": "2019-07-01", "type": "Microsoft.Compute/virtualMachines", "identity": {"type": "SystemAssigned"}, "name": [parameters("vmName")], "location": [parameters("location")], "condition": [equalstoLower(parameters("type")), toLower("Microsoft.Compute/virtualMachines")), "apiVersion": "2015-05-01-preview", "name": [concat(parameters("vmName"), "/AzurePolicyforWindows")], "type": "Microsoft.Compute/virtualMachines/extensions", "location": [parameters("location")], "properties": {"publisher": "Microsoft.GuestConfiguration", "type": "ConfigurationForWindows", "typeHandlerVersion": "1.1", "autoUpgradeMinorVersion": true, "settings": {}, "protectedSettings": {}, "dependsOn": ["[concat(Microsoft.Compute/virtualMachines/parameters(vmName)/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/parameters(configurationName)])"]}, "id": ["/providers/Microsoft.Authorization/policyDefinitions/f0633351-c7b2-41ff-9981-508fc08553c2", "type": "Microsoft.Authorization/policyDefinitions", "name": "f0633351-c7b2-41ff-9981-508fc08553c2"], "properties": {"displayName": "Microsoft Managed Control 1531 - Third-Party Personnel Security", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Personnel Security control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1531"}, "policyRule": {"if": {"allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, "equals": true]}, "then": {"effect": "audit"}}, "id": ["/providers/Microsoft.Authorization/policyDefinitions/f0643e0c-eee5-4113-8684-c608d05c5236", "type": "Microsoft.Authorization/policyDefinitions", "name": "f0643e0c-eee5-4113-8684-c608d05c5236"], "properties": {"displayName": "Latest TLS version should be used in your Web App", "policyType": "BuiltIn", "mode": "Indexed", "description": "Upgrade to the latest TLS version", "metadata": {"version": "1.0.0", "category": "App Service"}, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["AuditIfNotExists", "Disabled"], "defaultValue": "AuditIfNotExists"}, "policyRule": {"if": {"allOf": ["field": "type", "equals": "Microsoft.Web/sites"], "field": "kind", "like": "app*"}], "then": {"effect": [parameters("effect")], "details": ["type": "Microsoft.Web/sites/config", "name": "web", "existenceCondition": {"field": "Microsoft.Web/sites/sites/config/minTlsVersion", "equals": "1.2"}], "id": ["/providers/Microsoft.Authorization/policyDefinitions/f0e6e85b-9b9f-4a4b-b67b-f730d42f1b0b"], "properties": {"displayName": "Deploy Workflow Automation for Azure Security Center alerts", "policyType": "BuiltIn", "mode": "All", "description": "Enable automation of Azure Security Center alerts. This policy deploys a workflow automation with your conditions and triggers on the assigned scope. To deploy this policy on newly created subscriptions, open the Compliance tab, select the relevant non-compliant assignment and create a remediation task.", "metadata": {"version": "1.0.0", "category": "Security Center"}, "parameters": {"automationName": {"type": "String", "metadata": {"displayName": "Automation Center"}}, "dependsOn": ["[concat(Microsoft.Web/sites/parameters(name)/providers/Microsoft.Web/sites/sites/config/minTlsVersion)]"]}}}}}},
Open Source Used In SDWan 20.6.1  18068

For a full reference list of Security Center’s alerts, see https://docs.microsoft.com/azure/security-center/alerts-reference.
icrosoft.Resources/resourceGroups/'',
parameters(''resourceGroupName''))]"],"properties":{"mode":"Incremental","template":{"$schema":"https://schema.
management.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{},"variables":{},"resources":[{"tags":{},"
apiVersion":"2019-01-01preview","location":"[parameters(''resourceGroupLocation'')]","name":"[parameters(''automationName'')]","type":"
Microsoft.Security/automations","dependsOn":[],"properties":{"description":"Workflow
Automation for Azure Security Center alerts via
policy","isEnabled":true,"scopes":[{"description":"[replace(variables(''scopeDescription''),''{0}'',
subscription().subscriptionId)]","scopePath":"[subscription().id]"}],"sources":[{"eventSource":"Alerts","copy":[{"na
me":"ruleSets","count":"[variables(''alertSeveritiesLengthIfEmpty'')]","input":{"rules":[{"propertyJPath":"[if(equals
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''''), ''Version'',
''AlertDisplayName'')]","propertyType":"string","expectedValue":"[if(equals(parameters(''alertName''),
''''), ''3.'',
parameters(''alertName''))]","operator":"Contains"},{"propertyJPath":"Severity","propertyType":"string","expected
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variables(''alertSeveritiesLengthIfEmpty''))]]]","operator":"Equals"}]}}]}],"actions":[{"actionType":"LogicApp","lo
gicAppResourceId":"[parameters(''logicAppResourceId'')]","uri":"[listCallbackUrl(concat(parameters(''logicAppRes
ourceId''),
''/triggers/'', variables(''triggerMap'')[parameters(''logicAppTrigger'')]),''2016-0601'').value]"}]}}]}}}]},"parameters":{"automationName":{"value":"[parameters(''automationName'')]"},"resourceG
roupName":{"value":"[parameters(''resourceGroupName'')]"},"resourceGroupLocation":{"value":"[parameters(''reso
urceGroupLocation'')]"},"alertName":{"value":"[parameters(''alertName'')]"},"alertSeverities":{"value":"[parameter
s(''alertSeverities'')]"},"logicAppResourceId":{"value":"[parameters(''logicAppResourceId'')]"},"logicAppTrigger":{
"value":"[parameters(''logicAppTrigger'')]"}}}}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/f15
25828-9a90-4fcf-be48-268cdd02361e","type":"Microsoft.Authorization/policyDefinitions","name":"f15258289a90-4fcf-be48-268cdd02361e"},{"properties":{"displayName":"Microsoft
Managed Control 1028 - Information Flow
Enforcement","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1028"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/f171df5c-921b-41e9-b12b50801c315475","type":"Microsoft.Authorization/policyDefinitions","name":"f171df5c-921b-41e9-b12b50801c315475"},{"properties":{"displayName":"Virtual
networks should use specified virtual network
gateway","policyType":"BuiltIn","mode":"Indexed","description":"This
policy audits any virtual network if the default route does not point to the
specified virtual network
gateway.","metadata":{"version":"1.0.0","category":"Network"},"parameters":{"effect":{"type":"String","metadata"
:{"displayName":"Effect","description":"Enable
or disable the execution of the
policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"virtualNetworkGat
ewayId":{"type":"String","metadata":{"displayName":"Virtual
network gateway Id","description":"Resource Id of the virtual network gateway.
Example:

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Deploy prerequisites to audit Linux VMs that do not have the passwd file permissions set to 0644, "policyType":"BuiltIn", "mode":"Indexed", "description":"This policy creates a Guest Configuration assignment to audit Linux virtual machines that do not have the passwd file permissions set to 0644. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol", "metadata":{ "version": "1.2.0-preview", "category": "Guest Configuration", "requiredProviders": ["Microsoft.GuestConfiguration"], "preview": true }, "policyRule": { "if": { "anyOf": [ { "allOf": [ { "field": "Microsoft.Compute/virtualMachines", "anyOf": [ { "field": "Microsoft.Compute/imagePublisher", "in": [ "microsoft-aks", "AzureDataBricks", "qubole-inc", "datastax", "couchbase", "scalegrid", "checkpoint", "paloaltonetworks" ], "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "OpenLogic" }, { "field": "Microsoft.Compute/imageOffer", "like": "CentOS*" } ] }, { "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "RedHat" }, { "field": "Microsoft.Compute/imageOffer", "equals": "RHEL" } ] }, { "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "RedHat" }, { "field": "Microsoft.Compute/imageOffer", "equals": "osa" } ] } ] }, { "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "Debian" } ] }, { "allOf": [ { "field": "Microsoft.Compute/imagePublisher", "equals": "Canonical" } ] } ] }, { "allOf": [ { "field": "Microsoft.HybridCompute/machines", "like": "linux*" } ] } ] } }, "then": { "effect": "deployIfNotExists", "details": { "roleDefinitionIds": [ "/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c" ], "type": "Microsoft.GuestConfiguration/guestConfigurationAssignments", "name": "PasswordPolicy_msid121", "deployment": { "properties": { "mode": "incremental", "parameters": { "vmName": "[value]:[field(name)]", "location": "[value]:[field(location)]", "type": "[value]:[field(type)]", "configurationName": "[value]:PasswordPolicy_msid121" } } } } } } } }},
Deploy prerequisites to audit Windows VMs configurations in "Administrative Templates - MSS (Legacy)"."policyType":"BuiltIn","mode":"Indexed","description":"This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Administrative Templates - MSS (Legacy)". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol"}
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{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-security-inc"},
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{"field":"Microsoft.Compute/imageOffer","like":"bosh-windows-server*"}],
{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloud-infrastructure-services"},
{"field":"Microsoft.Compute/imageOffer","like":"ad*"}],
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{"field":"Microsoft.Compute/virtualMachines/storageProfile.osDisk.osType","like":"Windows*"}],
{"anyOf":[{"field":"Microsoft.Compute/imageSKU","notLike":"2008*"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]}
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"resources":{"[condition]:{"equals":ToLower(parameters('type'))}"
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This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines in which the Administrators group does not contain all of the specified members. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Show audit results from Windows VMs that do not contain the specified certificates in Trusted Root.

This definition allows Azure Policy to process the results of auditing Windows VMs that do not contain the specified certificates in the Trusted Root Certification Authorities certificate store (Cert:\LocalMachine\Root). For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.
Show audit results from Windows VMs that do not have the password complexity setting enabled, policyType: "BuiltIn", mode: "All", description: "This policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Windows virtual machines that do not have the password complexity setting enabled.

For more information on Guest Configuration policies, please visit https://aka.ms/gcpol,
Deploy prerequisites to audit Windows VMs that have not restarted within the specified number of days. This policy creates a Guest Configuration assignment to audit Windows virtual machines that have not restarted within the specified number of days. It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Number of days: The number of days without restart until the machine is considered non-compliant (defaultValue: 12)

PolicyRule: if: 
* anyOf: 
  * type: Microsoft.Compute/virtualMachines 
  * type: Microsoft.HybridCompute/machines 
* anyOf: 
  * type: Microsoft.GuestConfiguration/guestConfigurationAssignments

Deployment: 
* parameters: 
  * vmName: 
  * location: 
  * type: 
  * configurationName: 
  * NumberOfDays: 

Parameters: 
* NumberOfDays: 
  * type: String 
  * defaultValue: 12 
  * description: The number of days without restart until the machine is considered non-compliant.
Microsoft Managed Control 1469 - Power Equipment And Cabling

Microsoft Managed Control 1618 - Security Function Isolation

Managed Control 1469 - Power Equipment And Cabling

Managed Control 1618 - Security Function Isolation
Deploy prerequisites to audit Windows VMs configurations in "Security Options - Network Access". This policy creates a Guest Configuration assignment to audit Windows virtual machines with non-compliant settings in Group Policy category: "Security Options - Network Access". It also creates a system-assigned managed identity and deploys the VM extension for Guest Configuration. This policy should only be used along with its corresponding audit policy in an initiative. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

- Network Access Remote Accessible Registry Paths:

  Network access: Remotely accessible registry paths, description: Specifies which registry paths will be accessible over the network, regardless of the users or groups listed in the access control list (ACL) of the `winreg` registry key."

- Network Access Shares That Can Be Accessed Anonymously:

  Network access: Shares that can be accessed anonymously, description: Specifies which network shares can be accessed by anonymous users. The default configuration for this policy setting has little effect because all users have to be authenticated before they can access shared resources on the server."

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work

access: Remotely accessible registry paths and sub-paths; Expected Value: \[\text{parameters(} \text{"NetworkAccessRemotelyAccessibleRegistryPathsAndSubpaths"} \)]

name: "Network access: Shares that can be accessed anonymously; Expected Value: \[\text{parameters(} \text{"NetworkAccessSharesThatCanBeAccessedAnonymously"} \)]

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dependsOn": \[concat(\"Microsoft.Compute/virtualMachines/", parameters("vmName"), "/providers/Microsoft.GuestConfiguration/guestConfigurationAssignments/", parameters("configurationName")\)\]}}}}}}}}}}}

id": \"/providers/Microsoft.Authorization/policyDefinitions/f56a3ab2-89d1-44de-ac0d-2ada5962e22a\", "name": \"f56a3ab2-89d1-44de-ac0d-2ada5962e22a\", "properties": \{"displayName": "Microsoft Managed Control 1198 - Configuration Change Control | Security Representative", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": \{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": \"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1198\", "policyRule": \{"if": \{"allOf": \{"field": "type", "in": \["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]\}, "value": false", "equals": true\}\}, "then": \{"effect": audit\}\}\}, "id": \"/providers/Microsoft.Authorization/policyDefinitions/f56a3ab2-89d1-44de-ac0d-2ada5962e22a\"}, "properties": \{"displayName": "Microsoft Managed Control 1198 - Configuration Change Control | Security Representative", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Configuration Management control", "metadata": \{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": \"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1198\", "policyRule": \{"if": \{"allOf": \{"field": "type", "in": \["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]\}, "value": false", "equals": true\}\}, "then": \{"effect": audit\}\}\}, "id": \"/providers/Microsoft.Authorization/policyDefinitions/f56a3ab2-89d1-44de-ac0d-2ada5962e22a\"}, "properties": \{"displayName": "Microsoft Managed Control 1328 - Authenticator Management | Password-Based Authentication", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": \{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": \"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1328\", "policyRule": \{"if": \{"allOf": \{"field": "type", "in": \["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]\}, "value": false", "equals": true\}\}, "then": \{"effect": audit\}\}\}, "id": \"/providers/Microsoft.Authorization/policyDefinitions/f56a3ab2-89d1-44de-ac0d-2ada5962e22a\"}, "properties": \{"displayName": "Microsoft Managed Control 1328 - Authenticator Management | Password-Based Authentication", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": \{"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": \"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1328\", "policyRule": \{"if": \{"allOf": \{"field": "type", "in": \["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]\}, "value": false", "equals": true\}\}, "then": \{"effect": audit\}\}\}, "id": \"/providers/Microsoft.Authorization/policyDefinitions/f56a3ab2-89d1-44de-ac0d-2ada5962e22a\"}, "properties": \{"displayName": "Microsoft Managed Control 1328 - 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Managed Control 1345 - Cryptographic Module
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implements this Identification and Authentication
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Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1345"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/f86aa129-7c07-4aa4-bbf5792d93ffd9ea","type":"Microsoft.Authorization/policyDefinitions","name":"f86aa129-7c07-4aa4-bbf5792d93ffd9ea"},{"properties":{"displayName":"Microsoft
Managed Control 1065 - Remote Access | Privileged Commands /
Access","policyType":"Static","mode":"Indexed","description":"Microsoft
implements this Access Control control","metadata":{"version":"1.0.0","category":"Regulatory
Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1065"},"policyRule
":{"if":{"allOf":[{"field":"type","in":["Microsoft.Resources/subscriptions","Microsoft.Resources/subscriptions/reso
urceGroups"]},{"value":"false","equals":"true"}]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorizat
ion/policyDefinitions/f87b8085-dca9-4cf1-8f7b9822b997797c","type":"Microsoft.Authorization/policyDefinitions","name":"f87b8085-dca9-4cf1-8f7b9822b997797c"},{"properties":{"displayName":"[Preview]:
Deploy prerequisites to audit Windows VMs configurations in ''System Audit
Policies - System''","policyType":"BuiltIn","mode":"Indexed","description":"This
policy creates a Guest Configuration assignment to audit Windows virtual machines
with non-compliant settings in Group Policy category: ''System Audit Policies
- System''. It also creates a system-assigned managed identity and deploys
the VM extension for Guest Configuration. This policy should only be used
along with its corresponding audit policy in an initiative. For more information
on Guest Configuration policies, please visit https://aka.ms/gcpol","metadata":{"version":"1.1.0preview","category":"Guest
Configuration","requiredProviders":["Microsoft.GuestConfiguration"],"preview":true},"parameters":{"AuditOtherS
ystemEvents":{"type":"String","metadata":{"displayName":"[Preview]:
Audit Other System Events","description":"Specifies whether audit events are
generated for Windows Firewall Service and Windows Firewall driver start and
stop events, failure events for these services and Windows Firewall Service
policy processing failures."},"allowedValues":["No Auditing","Success","Failure","Success
and Failure"],"defaultValue":"No
Auditing"}},"policyRule":{"if":{"anyOf":[{"allOf":[{"field":"type","equals":"Microsoft.Compute/virtualMachines"
},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["esri","incredibuild","MicrosoftDynamicsAX","Mi
crosoftSharepoint","MicrosoftVisualStudio","MicrosoftWindowsDesktop","MicrosoftWindowsServerHPCPack"]},
{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"MicrosoftWindowsServer"},{"field":"Microsoft.
Compute/imageSKU","notLike":"2008*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"Mic
rosoftSQLServer"},{"field":"Microsoft.Compute/imageOffer","notLike":"SQL2008*"}]},{"allOf":[{"field":"Micros
ageOffer","equals":"renderingwindows2016"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"center-for-internet-security-

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control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1478"},"policyRule":{"if":{"allOf":[]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/36ed3a55-e30f-47c4-b05b-24d8c9de925e","type":"Microsoft.Authorization/policyDefinitions","name":"36ed3a55-e30f-47c4-b05b-24d8c9de925e","properties":{"displayName":"Microsoft Managed Control 1535 - Personnel Sanctions","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Personnel Security control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":null},"policyRule":{"if":{"allOf":[]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/f997df46-cfbb-4cc8-aac8-3fedc4f49a183","type":"Microsoft.Authorization/policyDefinitions","name":"f997df46-cfbb-4cc8-aac8-3fedc4f49a183","properties":{"displayNamed":"Microsoft Managed Control 1535 - Personnel Sanctions","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Personnel Security control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":null},"policyRule":{"if":{"allOf":[]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/f9a165d2-967d-4733-8399-1074270dae2e","type":"Microsoft.Authorization/policyDefinitions","name":"f9a165d2-967d-4733-8399-1074270dae2e","properties":{"displayName":"Microsoft Managed Control 1108 - Content Of Audit Records | Additional Audit Information","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":null},"policyRule":{"if":{"allOf":[]},"then":{"effect":"audit"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/f9ad559e-c12d-415e-9a78-e50fdd77a7ba","type":"Microsoft.Authorization/policyDefinitions","name":"f9ad559e-c12d-415e-9a78-e50fdd77a7ba","properties":{"displayName":"Diagnostic logs in Azure Stream Analytics should be enabled","policyType":"BuiltIn","mode":"Indexed","description":"Audit enabling of diagnostic logs. This enables you to recreate activity trails to use for investigation purposes; when a security incident occurs or when your network is compromised.","metadata":{"version":"2.0.0","category":null,"additionalMetadataId":null},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"requiredRetentionDays":{"type":null,"metadata":null},"policyRule":{"if":{"field":"type","equals":"Microsoft.StreamAnalytics/streamingJobs"},"then":{"parameters":null,"details":null},"condition":null,"count":null},"allOf":null},"id":"/providers/Microsoft.Authorization/policyDefinitions/f9be5368-9bf5-4b84-9e0a-7850da98bb46","type":"Microsoft.Authorization/policyDefinitions","name":"f9be5368-9bf5-4b84-9e0a-7850da98bb46","properties":{"displayName":"Latest TLS version should be used in your Function App","policyType":"BuiltIn","mode":"Indexed","description":"Upgrade"}}
Managed Control 1280 - Telecommunications Services | Priority Of Service Provisions

Managed Control 1037 - Least Privilege | Network Access To Privileged Commands

Managed Control 1435 - Media Transport

Managed Control 1675 - Flaw Remediation | Time To Remediate Flaws / Benchmarks

For Corrective Actions

Microsoft implements this System and Information Integrity control.
policy creates a system-assigned managed identity and deploys the VM extension
for Guest Configuration on Linux VMs. This is a prerequisite for Guest Configuration
Policy and must be assigned to the scope before using any Guest Configuration
policy. For more information on Guest Configuration policies, please visit
https://aka.ms/gcpol.","metadata":{"version":"1.2.0","category":"Guest
Configuration","requiredProviders":["Microsoft.GuestConfiguration"]},"policyRule":{"if":{"allOf":[{"field":"type",
"equals":"Microsoft.Compute/virtualMachines"},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","in":["mi
crosoft-aks","AzureDatabricks","quboleinc","datastax","couchbase","scalegrid","checkpoint","paloaltonetworks"]},{"allOf":[{"field":"Microsoft.Compute/i
magePublisher","equals":"OpenLogic"},{"field":"Microsoft.Compute/imageOffer","like":"CentOS*"},{"field":"Mic
rosoft.Compute/imageSKU","notLike":"6*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"R
edHat"},{"field":"Microsoft.Compute/imageOffer","equals":"RHEL"},{"field":"Microsoft.Compute/imageSKU","n
otLike":"6*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"RedHat"},{"field":"Microsoft.C
ompute/imageOffer","equals":"osa"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"credativ"
},{"field":"Microsoft.Compute/imageOffer","equals":"Debian"},{"field":"Microsoft.Compute/imageSKU","notLike
":"7*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"Suse"},{"field":"Microsoft.Compute/i
mageOffer","like":"SLES*"},{"field":"Microsoft.Compute/imageSKU","notLike":"11*"}]},{"allOf":[{"field":"Mic
rosoft.Compute/imagePublisher","equals":"Canonical"},{"field":"Microsoft.Compute/imageOffer","equals":"Ubunt
uServer"},{"field":"Microsoft.Compute/imageSKU","notLike":"12*"}]},{"allOf":[{"field":"Microsoft.Compute/ima
gePublisher","equals":"microsoft-dsvm"},{"field":"Microsoft.Compute/imageOffer","in":["linux-data-science-vmubuntu","azureml"]}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"cloudera"},{"field":"Micr
osoft.Compute/imageOffer","equals":"cloudera-centosos"},{"field":"Microsoft.Compute/imageSKU","notLike":"6*"}]},{"allOf":[{"field":"Microsoft.Compute/imagePub
lisher","equals":"cloudera"},{"field":"Microsoft.Compute/imageOffer","equals":"cloudera-altus-centosos"}]},{"allOf":[{"field":"Microsoft.Compute/imagePublisher","equals":"microsoftads"},{"field":"Microsoft.Compute/imageOffer","like":"linux*"}]},{"allOf":[{"anyOf":[{"field":"Microsoft.Compu
te/virtualMachines/osProfile.linuxConfiguration","exists":"true"},{"field":"Microsoft.Compute/virtualMachines/stor
ageProfile.osDisk.osType","like":"Linux*"}]},{"anyOf":[{"field":"Microsoft.Compute/imagePublisher","exists":"fa
lse"},{"field":"Microsoft.Compute/imagePublisher","notIn":["OpenLogic","RedHat","credativ","Suse","Canonical",
"microsoft-dsvm","cloudera","microsoftads"]}]}]}]}]},"then":{"effect":"deployIfNotExists","details":{"roleDefinitionIds":["/providers/microsoft.authorizati
on/roleDefinitions/b24988ac-6180-42a0-ab8820f7382dd24c"],"type":"Microsoft.Compute/virtualMachines/extensions","name":"AzurePolicyforLinux","existence
Condition":{"allOf":[{"field":"Microsoft.Compute/virtualMachines/extensions/publisher","equals":"Microsoft.Gues
tConfiguration"},{"field":"Microsoft.Compute/virtualMachines/extensions/type","equals":"ConfigurationforLinux"}
]},"deployment":{"properties":{"mode":"incremental","parameters":{"vmName":{"value":"[field(''name'')]"},"locati
on":{"value":"[field(''location'')]"}},"template":{"$schema":"https://schema.management.azure.com/schemas/20150101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"vmName":{"type":"string"},"location":{
"type":"string"}},"resources":[{"apiVersion":"2019-0701","type":"Microsoft.Compute/virtualMachines","identity":{"type":"SystemAssigned"},"name":"[parameters(''vm
Name'')]","location":"[parameters(''location'')]"},{"apiVersion":"2015-05-01preview","name":"[concat(parameters(''vmName''),
''/AzurePolicyforLinux'')]","type":"Microsoft.Compute/virtualMachines/extensions","location":"[parameters(''locatio
n'')]","properties":{"publisher":"Microsoft.GuestConfiguration","type":"ConfigurationforLinux","typeHandlerVersi
on":"1.0","autoUpgradeMinorVersion":true,"settings":{},"protectedSettings":{}}}]}}}}}}},"id":"/providers/Micros
oft.Authorization/policyDefinitions/fb27e9e0-526e-4ae1-89f2a2a0bf0f8a50","type":"Microsoft.Authorization/policyDefinitions","name":"fb27e9e0-526e-4ae1-89f2-

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Microsoft Managed Control 1086 - Publicly Accessible Content

- policyType: "Static"
- mode: "Indexed"
- description: Microsoft implements this Access Control control
- metadata:
  - version: "1.0.0"
  - category: Regulatory Compliance
  - additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1086

Microsoft implements this Access Control control, metadata:
- version: "1.0.0"
- category: Regulatory Compliance
- additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1086

Policy Rule:
- if: ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, equals: true]]
- then: ["effect": audit]

Microsoft Managed Control 1222 - Information System Component Inventory
- policyType: "Static"
- mode: "Indexed"
- description: Microsoft implements this Configuration Management control
- metadata:
  - version: "1.0.0"
  - category: Regulatory Compliance
  - additionalMetadataId: /providers/Microsoft.PolicyInsights/policyMetadata/ACF1222

Policy Rule:
- if: ["allOf": ["field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"], "value": false, equals: true]]
- then: ["effect": audit]

Microsoft Managed Control 1087 - Publicly Accessible Content

- policyType: "BuiltIn"
- mode: "Indexed"
- description: Upgrade your Kubernetes service cluster to a later Kubernetes version to protect against known vulnerabilities in your current Kubernetes version. Vulnerability CVE-2019-9946 has been patched in Kubernetes versions 1.11.9+, 1.12.7+, 1.13.5+, and 1.14.0+.
- metadata:
  - version: "1.0.1-preview"
  - category: Security Center

Policy Rule:
- if: ["allOf": ["field": type, equals: "Microsoft.ContainerService/managedClusters"], "anyOf": ["field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.13.4", "1.13.3", "1.13.2", "1.13.1", "1.13.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.12.6", "1.12.5", "1.12.4", "1.12.3", "1.12.2", "1.12.1", "1.12.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.11.8", "1.11.7", "1.11.6", "1.11.5", "1.11.4", "1.11.3", "1.11.2", "1.11.1", "1.11.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.10.9", "1.10.8", "1.10.7", "1.10.6", "1.10.5", "1.10.4", "1.10.3", "1.10.2", "1.10.1", "1.10.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.9.9", "1.9.8", "1.9.7", "1.9.6", "1.9.5", "1.9.4", "1.9.3", "1.9.2", "1.9.1", "1.9.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.8.9", "1.8.8", "1.8.7", "1.8.6", "1.8.5", "1.8.4", "1.8.3", "1.8.2", "1.8.1", "1.8.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.7.9", "1.7.8", "1.7.7", "1.7.6", "1.7.5", "1.7.4", "1.7.3", "1.7.2", "1.7.1", "1.7.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.6.9", "1.6.8", "1.6.7", "1.6.6", "1.6.5", "1.6.4", "1.6.3", "1.6.2", "1.6.1", "1.6.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.5.9", "1.5.8", "1.5.7", "1.5.6", "1.5.5", "1.5.4", "1.5.3", "1.5.2", "1.5.1", "1.5.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.4.9", "1.4.8", "1.4.7", "1.4.6", "1.4.5", "1.4.4", "1.4.3", "1.4.2", "1.4.1", "1.4.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.3.9", "1.3.8", "1.3.7", "1.3.6", "1.3.5", "1.3.4", "1.3.3", "1.3.2", "1.3.1", "1.3.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.2.9", "1.2.8", "1.2.7", "1.2.6", "1.2.5", "1.2.4", "1.2.3", "1.2.2", "1.2.1", "1.2.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.1.9", "1.1.8", "1.1.7", "1.1.6", "1.1.5", "1.1.4", "1.1.3", "1.1.2", "1.1.1", "1.1.0"], "field": Microsoft.ContainerService/managedClusters/kubernetesVersion, in: ["1.0.9", "1.0.8", "1.0.7", "1.0.6", "1.0.5", "1.0.4", "1.0.3", "1.0.2", "1.0.1", "1.0.0"]]
- then: ["effect": audit]
with BYOK. The policy works only if the storage account lies on the same subscription as activity logs by design. More information on Azure Storage encryption at rest can be found here https://aka.ms/azurestoragebyok.

```
"metadata":{"version":"1.0.0","category":"Monitoring"},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Effect","description":"Enable or disable the execution of the policy"}},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Insights/logProfiles"},"exists":true]},"then":{"effect":{"parameters["effect"]"},"details":{"type":"Microsoft.Storage/storageAccounts","existenceScope":"subscription","existenceCondition":{"allOf":[{"value":contains(field("Microsoft.Insights/logProfiles/storageAccountId"),subscription().Id)}],"equals":Microsoft.KeyVault]},"id":"providers/Microsoft.Authorization/policyDefinitions/fbb99e8e-e444-4da0-9ff1-75c92f5a85b2","type":"Microsoft.Authorization/policyDefinitions","name":"fbb99e8e-e444-4da0-9ff1-75c92f5a85b2"},"properties":{"displayName":"Preview: All Internet traffic should be routed via your deployed Azure Firewall","policyType":"BuiltIn","mode":"All","description":"Azure Security Center has identified that some of your subnets aren’t protected with a next generation firewall. Protect your subnets from potential threats by restricting access to them with Azure Firewall or a supported next generation firewall","metadata":{"version":"1.0.0-preview","category":"Network","preview":true},"parameters":{"effect":{"type":"String","metadata":{"displayName":"Preview: Effect","description":"Enable or disable All Internet traffic should be routed via your deployed Azure Firewall"}},"allowedValues":["AuditIfNotExists","Disabled"],"defaultValue":"AuditIfNotExists"},"policyRule":{"if":{"allOf":[{"field":"type","equals":"Microsoft.Network/virtualNetworks/subnets"},"exists":false],"count":{"field":Microsoft.Network/virtualNetworks/subnets[routeTable],"where":{"field":Microsoft.Network/virtualNetworks/subnets[routeTable].id,"like":concat("/subscriptions/",subscription().subscriptionId, "/resourceGroups/*/providers/Microsoft.Network/virtualNetworks/",first(split(field("fullName"),".")),"/subnets/",field("name"))},"equals":1},"count":{"field":Microsoft.Network/networkSecurityGroups/securityRules[*],"where":{"allOf":[{"field":Microsoft.Network/networkSecurityGroups/securityRules[*.direction],"equals":"Outbound"},"field":Microsoft.Network/networkSecurityGroups/securityRules[*.access],"equals":"Deny"],"field":Microsoft.Network/networkSecurityGroups/securityRules[*.destinationAddressPrefix],"in":["*","Internet"]},"anyOf":{"field":Microsoft.Network/networkSecurityGroups/securityRules[*.destinationPortRange],"in":["*",0-65535]}}],"not":{"field":Microsoft.Network/networkSecurityGroups/securityRules[*.destinationPortRanges],"notEquals":0-65535}]}],"greater":0},"count":{"field":Microsoft.Network/networkSecurityGroups/securityRules[*],"where":{"allOf":[{"field":Microsoft.Network/networkSecurityGroups/securityRules[*.direction],"equals":"Outbound"},"field":Microsoft.Network/networkSecurityGroups/securityRules[*.access],"equals":"Allow"],"field":Microsoft.Network/networkSecurityGroups/securityRules[*.destinationAddressPrefix],"in":["*","Internet"]},"equals":0}]}],"id":"providers/Microsoft.Authorization/policyDefinitions/fc5e4038-4584-4632-8c85-
Managed Control 1318 - Authenticator Management, "control": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1318"}, "policyRule": {
  "if": {
    "allOf": [
      {
        "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptionGroups"]
      },
      {
        "value": false,
        "equals": true
      }
    ]
  },
  "then": {
    "effect": audit
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fced5fda-3dbd-4d73-bfca-02e80428b66b", "type": "Microsoft.Authorization/policyDefinitions", "name": "fced5fda-3dbd-4d73-bfca-02e80428b66b", "properties": {
  "displayName": "Microsoft Managed Control 1543 - Risk Assessment Management", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Risk Assessment control", "metadata": {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1543"}, "policyRule": {
  "if": {
    "allOf": [
      {
        "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptionGroups"]
      },
      {
        "value": false,
        "equals": true
      }
    ]
  },
  "then": {
    "effect": audit
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fd00b778-b5b5-49c0-a994-734ea7bd3624", "type": "Microsoft.Authorization/policyDefinitions", "name": "fd00b778-b5b5-49c0-a994-734ea7bd3624", "properties": {
  "displayName": "Microsoft Managed Control 1707 - Security Alerts, Advisories, And Directives | Automated Alerts And Advisories", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Information Integrity control", "metadata": {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1707"}, "policyRule": {
  "if": {
    "allOf": [
      {
        "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptionGroups"]
      },
      {
        "value": false,
        "equals": true
      }
    ]
  },
  "then": {
    "effect": audit
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fd4a2ac8-868a-4702-a345-6c896c3361ce", "type": "Microsoft.Authorization/policyDefinitions", "name": "fd4a2ac8-868a-4702-a345-6c896c3361ce", "properties": {
  "displayName": "Microsoft Managed Control 1299 - Identification And Authentication Policy And Procedures", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Identification and Authentication control", "metadata": {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1299"}, "policyRule": {
  "if": {
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      },
      {
        "value": false,
        "equals": true
      }
    ]
  },
  "then": {
    "effect": audit
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fd4e54f7-9ab0-4bae-b6cc-457809948a89", "type": "Microsoft.Authorization/policyDefinitions", "name": "fd4e54f7-9ab0-4bae-b6cc-457809948a89", "properties": {
  "displayName": "Microsoft Managed Control 1627 - Boundary Protection | External Telecommunications Services", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Communications Protection control", "metadata": {
  "version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1627"}, "policyRule": {
  "if": {
    "allOf": [
      {
        "field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/subscriptionGroups"]
      },
      {
        "value": false,
        "equals": true
      }
    ]
  },
  "then": {
    "effect": audit
  }
}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fd73310d-76fc-422d-bda4-3a077149f179", "type": "Microsoft.Authorization/policyDefinitions", "name": "fd73310d-76fc-422d-bda4-3a077149f179", "properties": {
  "displayName": "Microsoft
Managed Control 1130 - Time Stamps | Synchronization With Authoritative Time Source","policyType":"Static","mode":"Indexed","description":"Microsoft implements this Audit and Accountability control","metadata":{"version":"1.0.0","category":"Regulatory Compliance","additionalMetadataId":"/providers/Microsoft.PolicyInsights/policyMetadata/ACF1130"},"policyRule":{"if":{"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fd7c4c1d-51ee-4349-9dab-89a7f8c8d102"}, "type": "Microsoft.Authorization/policyDefinitions", "name": "fd7c4c1d-51ee-4349-9dab-89a7f8c8d102"}, {"properties": {"displayName": "Public network access should be disabled for MariaDB servers", "policyType": "BuiltIn", "mode": "Indexed", "description": "This policy audits MariaDB servers in your environment with public network access enabled. For more details, visit https://go.microsoft.com/fwlink/?linkid=2119542."}, "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1611"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fdda8a0c-ac32-43f6-b2f4-7dc1df03f43f"}, {"properties": {"displayName": "Microsoft Managed Control 1611 - Developer-Provided Training", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1611"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fdda8a0c-ac32-43f6-b2f4-7dc1df03f43f"}, {"properties": {"displayName": "Microsoft Managed Control 1405 - Maintenance Tools | Inspect Tools", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this Maintenance control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1405"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fe1a0bf3-409a-4b00-b60d-b0f191f7e7b"}, {"properties": {"displayName": "Microsoft Managed Control 1613 - Developer Security Architecture And Design", "policyType": "Static", "mode": "Indexed", "description": "Microsoft implements this System and Services Acquisition control", "metadata": {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "/providers/Microsoft.PolicyInsights/policyMetadata/ACF1613"}, "policyRule": {"if": {"allOf": [{"field": "type", "in": ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]}, {"value": false, "equals": true}]}, "then": {"effect": "audit"}}, "id": "/providers/Microsoft.Authorization/policyDefinitions/fe1a0bf3-409a-4b00-b60d-b0f191f7e7b"}
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Show audit results from Linux VMs that do not have the specified applications installed.

Policy should only be used along with its corresponding deploy policy in an initiative. This definition allows Azure Policy to process the results of auditing Linux virtual machines that do not have the specified applications installed. For more information on Guest Configuration policies, please visit https://aka.ms/gcpol.

Vulnerabilities on your SQL databases should be remediated.

Vulnerability Assessment scan results and recommendations for how to remediate database vulnerabilities. on your SQL databases should be remediated.
Managed Control 1407 - Maintenance Tools | Prevent Unauthorized Removal

**policyType**: "Static", **mode**: "Indexed", **description**: "Microsoft implements this Maintenance control", **metadata**: {"version": "1.0.0", "category": "Regulatory Compliance", "additionalMetadataId": "providers/Microsoft.PolicyInsights/policyMetadata/ACF1407"}

**policyRule**

*if*:

- **allOf**: 
  - **field**: "type", **in**: ["Microsoft.Resources/subscriptions", "Microsoft.Resources/subscriptions/resourceGroups"]
  - **value**: "false", **equals**: "true"

*then*:

- **effect**: "audit"

**name**: "Deploy export to Log Analytics workspace for Azure Security Center alerts and recommendations", **policyType**: "BuiltIn", **mode**: "All", **description**: "Enable export to Log Analytics workspace of Azure Security Center alerts and/or recommendations. This policy deploys an export to Log Analytics workspace configuration with your conditions and target workspace on the assigned scope. To deploy this policy on newly created subscriptions, open the Compliance tab, select the relevant non-compliant assignment and create a remediation task.", **metadata**: {"version": "1.0.0", "category": "Security Center"}

**resourceGroupName**: **metadata**: {"displayName": "Resource group name", "description": "The resource group name where the export to Log Analytics workspace configuration is created. If you enter a name for a resource group that doesn’t exist, it’ll be created in the subscription. Note that each resource group can only have one export to Log Analytics workspace configured."}

**resourceGroupLocation**: **metadata**: {"displayName": "Resource group location", "description": "The location where the resource group and the export to Log Analytics workspace configuration are created.", "strongType": "location"]}

**exportedDataTypes**: **metadata**: {"displayName": "Exported data types", "description": "The data types to be exported. Example: Security recommendations;Security alerts;"}

**recommendationNames**: **metadata**: {"displayName": "Recommendation IDs", "description": "Applicable only for export of security recommendations. To export all recommendations, leave this empty. To export specific recommendations, enter a list of recommendation IDs separated by semicolons (";"). Recommendation IDs are available through the Assessments API (https://docs.microsoft.com/rest/api/securitycenter/assessments), or Azure Resource Graph Explorer (https://portal.azure.com/#blade/HubsExtension/ArgQueryBlade), choose securityresources and microsoft.security/assessments.).

**recommendationSeverities**: **metadata**: {"displayName": "Recommendation severities", "description": "Applicable only for export of security recommendations. Determines recommendation severities. Example: High;Medium;Low;"}

**alertSeverities**: **metadata**: {"displayName": "Alert severities", "description": "Applicable only for export of security recommendations. Determines recommendation severities. Example: High;Medium;Low;"}
severities","description":"Applicable only for export of security alerts.
Determines alert severities. Example:

High;Medium;Low;

allowedValues:["High","Medium","Low"],
defaultValue:["High","Medium","Low"],
workspaceResourceId:

"type":"String",
"metadata":{
"displayName":"Log Analytics workspace",
"description":"The Log Analytics workspace of where the data should be exported to. If you do not already have a log analytics workspace, visit Log Analytics workspaces to create one (https://portal.azure.com/#blade/HubsExtension/BrowseResource/resourceType/Microsoft.OperationalInsights%2Fworkspaces).",
"strongType":"Microsoft.OperationalInsights/workspaces",
"assignPermissions":true}]

(policyRule:

{"if":{
"field":"type",
"equals":"Microsoft/Resources/subscriptions"},
"then":{
"effect":"deployIfNotExists",
"details":{
"type":"Microsoft.Security/automations",
"name":"ExportToWorkspace",
"existenceScope":resourcegroup,
"resourceGroupName":parameters(resourceGroupName)
"deploymentScope":subscription,
"roleDefinitionIds": ['/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c'],
"deployment":{
"location":"westeurope",
"properties":{
"mode":"incremental",
"template":{
"contentVersion": "1.0.0.0",
"parameters":{
"resourceGroupName":{"type":"string"},
"resourceGroupLocation":{"type":"string"},
"exportedDataTypes":{"type":"array"},
"recommendationNames":{"type":"array"},
"recommendationSeverities":{"type":"array"},
"alertSeverities":{"type":"array"},
"workspaceResourceId":{"type":"string"},
"guidValue":{"type":"string","defaultValue":newGuid()}
"variables":{
"scopeDescription":"scope for subscription [0]",
"recommendationNamesLength":length(parameters(recommendationNames)),
"recommendationSeveritiesLength":length(parameters(recommendationSeverities)),
"alertSeveritiesLength":length(parameters(alertSeverities)),
"recommendationNamesLengthIfEmpty":if(equals(variables(recommendationNamesLength),0),1,variables(recommendationNamesLength)),
"recommendationSeveritiesLengthIfEmpty":if(equals(variables(recommendationSeveritiesLength),0),1,variables(recommendationSeveritiesLength)),
"alertSeveritiesLengthIfEmpty":if(equals(variables(alertSeveritiesLength),0),1,variables(alertSeveritiesLength)),
"totalRuleCombinationsForOneRecommendationName":variables(recommendationSeveritiesLengthIfEmpty),
"totalRuleCombinationsForOneRecommendationSeverity":1,
"exportedDataTypesLength":length(parameters(exportedDataTypes)),
"exportedDataTypesLengthIfEmpty":if(equals(variables(exportedDataTypesLength),0),1,variables(exportedDataTypesLength)),
"dataTypeMap":{"Security recommendations":Assessments,"Security alerts":Alerts},
"alertSeverityMap":{"High":high,"Medium":medium,"Low":low},
"ruleSetsForAssessmentsObj":{
"copy":{
"name":ruleSetsForAssessmentsArr,
"count":mul(variables(recommendationNamesLengthIfEmpty),variables(recommendationSeveritiesLengthIfEmpty))
"input":{
"rules":{
"propertyJPath":if(equals(variables(recommendationNamesLength),0),"type","name"),
"propertyType":"string","expectedValue":parameters(recommendationNames)[mod(div(copyIndex(ruleSetsForAssessmentsArr),variables(totalRuleCombinationsForOneRecommendationName)),variables(recommendationNamesLength))],
"propertyMetadata":if(equals(variables(recommendationNamesLength),0),Microsoft.Security/assessments,parameters(recommendationNames))[mod(div(copyIndex(ruleSetsForAssessmentsArr),variables(totalRuleCombinationsForOneRecommendationName)),variables(recommendationNamesLength))],
"operator":Contains,
"propertyJPath":properties.metadata.severity,
"propertyType":"string","expectedValue":parameters(recommendationSeverities)[mod(div(copyIndex(ruleSetsForAssessmentsArr),variables(totalRuleCombinationsForOneRecommendationName)),variables(recommendationSeveritiesLength))],
"operator":Equals} }
"ruleSetsForAlertsObj":{
"copy":{
"name":ruleSetsForAlertsArr,
"count":variables(alertSeveritiesLengthIfEmpty)
"input":{
"rules":{
"propertyJPath":Severity,
"propertyMetadata":if(equals(variables(alertSeveritiesLength),0),Microsoft.Security/alerts,parameters(alertSeverities))[mod(div(copyIndex(ruleSetsForAlertsArr),variables(totalRuleCombinationsForOneRecommendationName)),variables(alertSeveritiesLength))],
"operator":Contains,
"propertyJPath":properties.metadata.severity,
"propertyType":"string","expectedValue":parameters(alertSeverities)[mod(div(copyIndex(ruleSetsForAlertsArr),variables(totalRuleCombinationsForOneRecommendationName)),variables(alertSeveritiesLength))],
"operator":Equals} }
"ruleSetsForAnalyticsObj":{
"copy":{
"name":ruleSetsForAnalyticsArr,
"count":variables(LogAnalyticsworkspace)
"input":{
"rules":{
"propertyJPath":Analytics workspace,
"propertyMetadata":if(equals(variables(LogAnalyticsworkspace),0),Microsoft.Security/analytics,parameters(LogAnalyticsworkspace))[mod(div(copyIndex(ruleSetsForAnalyticsArr),variables(totalRuleCombinationsForOneRecommendationName)),variables(LogAnalyticsworkspaceLength))],
"operator":Contains,
"propertyJPath":properties.metadata.logAnalytics.workspace,
"propertyType":"string","expectedValue":parameters(LogAnalyticsworkspace)[mod(div(copyIndex(ruleSetsForAnalyticsArr),variables(totalRuleCombinationsForOneRecommendationName)),variables(LogAnalyticsworkspaceLength))],
"operator":Equals} }
"ruleSets":{
"assessment":ruleSetsForAssessmentsObj,
"alerts":ruleSetsForAlertsObj,
"analytics":ruleSetsForAnalyticsObj}.

"if":{
"propertyJPath":parameters("if")
"propertyType":"string",
"expectedValue":parameters("if")
"operator":"Contains"}.

field":"type",
"equals":parameters("if")

and:TRUE

if:

Then:

function:deployIfNotExists

Details:

type:Microsoft.Security/automations

name:"ExportToWorkspace"

existenceScope:resourcegroup

ResourceGroupName:parameters(resourceGroupName)

deploymentScope:subscription

roleDefinitionIds:

['/providers/microsoft.authorization/roleDefinitions/b24988ac-6180-42a0-ab88-20f7382dd24c']

deployment:

location:westeurope

properties:

mode:incremental

template:

$schema:


contentVersion:

1.0.0.0

parameters:

resourceGroupName:

type:string

resourceGroupLocation:

type:string

exportedDataTypes:

type:array

recommendationNames:

type:array

recommendationSeverities:

type:array

alertSeverities:

type:array

workspaceResourceId:

type:string

guidValue:

type:string

defaultValue:newGuid()
Ensure containers listen only on allowed ports in AKS, "policyType": "BuiltIn", "mode": "Microsoft.ContainerService.Data", "description": "This policy enforces containers to listen only on allowed ports in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.", "metadata": {"version": "1.0.1-deprecated", "category": "Kubernetes service", "deprecated": true }, "parameters": {"allowedContainerPortsRegex": {"type": "String", "metadata": {"displayName": "Allowed container ports regex", "description": "Regex representing container ports allowed in Kubernetes cluster. E.g. Regex for allowing ports 443,446 is ^\(443|446\)$"}}, "effect": {"type": "String", "metadata": {"displayName": "Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["EnforceRegoPolicy", "Disabled"], "defaultValue": "EnforceRegoPolicy"}}, "policyRule": {"if": "[field="type", "equals":"Microsoft.ContainerService/managedClusters"]", "then": "[effect:[parameters("effect")]]"}, "id": "/providers/Microsoft.Authorization/policyDefinitions/0f636243-1b1c-4d50-880f-310f6199f2cb", "type": "Microsoft.Authorization/policyDefinitions", "name": "0f636243-1b1c-4d50-880f-310f6199f2cb"}, {"properties": {"displayName": "Manage certificate lifetime action triggers", "policyType": "BuiltIn", "mode": "Microsoft.KeyVault.Data", "description": "This policy manages the configuration for certificate lifetime action triggers before certificate expiration.", "metadata": {"version": "1.0.0-preview", "category": "Key Vault", "preview": true }, "parameters": {"maximumPercentageLife": {"type": "Integer", "metadata": {"displayName": "The maximum lifetime percentage when you want to trigger the policy action. For example, to trigger a policy action at 80% of the certificate’s valid life, enter"}}}
''80''."}},"minimumDaysBeforeExpiry":{"type":"Integer","metadata":{"displayName":"[Preview]:
The minimum days before expiry","description":"Enter the days before expiration
of the certificate when you want to trigger the policy action. For example,
to trigger a policy action 90 days before the certificate''s expiration, enter
''90''."}},"effect":{"type":"String","metadata":{"displayName":"[Preview]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["audit","deny","disabled"],"defaultValue":"audit"}},"policyRule":{"if":{"anyOf":[{"allO
f":[{"field":"Microsoft.KeyVault.Data/vaults/certificates/lifetimeAction.daysBeforeExpiry","exists":true},{"field":"
Microsoft.KeyVault.Data/vaults/certificates/lifetimeAction.daysBeforeExpiry","less":"[parameters(''minimumDays
BeforeExpiry'')]"}]},{"allOf":[{"field":"Microsoft.KeyVault.Data/vaults/certificates/lifetimeAction.lifetimePercenta
ge","exists":true},{"field":"Microsoft.KeyVault.Data/vaults/certificates/lifetimeAction.lifetimePercentage","greater"
:"[parameters(''maximumPercentageLife'')]"}]}]},"then":{"effect":"[parameters(''effect'')]"}}},"id":"/providers/Micr
osoft.Authorization/policyDefinitions/12ef42cb-9903-4e39-9c26422d29570417","type":"Microsoft.Authorization/policyDefinitions","name":"12ef42cb-9903-4e39-9c26422d29570417"},{"properties":{"displayName":"[Deprecated]:
Enforce labels on pods in
AKS","policyType":"BuiltIn","mode":"Microsoft.ContainerService.Data","description":"This
policy enforces the specified labels are provided for pods in an Azure Kubernetes
Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc
for instructions on using new Kubernetes policies.","metadata":{"version":"1.0.1deprecated","category":"Kubernetes
service","deprecated":true},"parameters":{"commaSeparatedListOfLabels":{"type":"String","metadata":{"displayN
ame":"[Deprecated]:
Comma-separated list of labels","description":"A comma-separated list of labels
to be specified on Pods in Kubernetes cluster. E.g.
test1,test2"}},"effect":{"type":"String","metadata":{"displayName":"[Deprecated]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["EnforceRegoPolicy","Disabled"],"defaultValue":"EnforceRegoPolicy"}},"policyRule":
{"if":{"field":"type","equals":"Microsoft.ContainerService/managedClusters"},"then":{"effect":"[parameters(''effect
edListOfLabels'')]"}}}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/16c6ca72-89d2-4798-b87e496f9de7fcb7","type":"Microsoft.Authorization/policyDefinitions","name":"16c6ca72-89d2-4798-b87e496f9de7fcb7"},{"properties":{"displayName":"[Preview]:
Enforce HTTPS ingress in Kubernetes
cluster","policyType":"BuiltIn","mode":"Microsoft.Kubernetes.Data","description":"This
policy enforces HTTPS ingress in a Kubernetes cluster. For instructions on
using this policy, visit https://aka.ms/kubepolicydoc.","metadata":{"version":"3.0.0preview","category":"Kubernetes","preview":true},"parameters":{"effect":{"type":"String","metadata":{"displayNa
me":"[Preview]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["enforceOPAConstraint","disabled"],"defaultValue":"enforceOPAConstraint"},"exclude
dNamespaces":{"type":"Array","metadata":{"displayName":"[Preview]:
Namespace exclusions","description":"List of Kubernetes namespaces to exclude
from policy evaluation. Providing a value for this parameter is
optional."},"defaultValue":[]}},"policyRule":{"if":{"field":"type","in":["AKS
Engine","Microsoft.Kubernetes/connectedClusters","Microsoft.ContainerService/managedClusters"]},"then":{"effec

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Configure log filter expressions and datastore to be used for full logs for specified Azure Machine Learning computes.

Compute names where Azure ML jobs run, description: "List of compute names where this policy should be applied. Ex. cpu-cluster;gpu-cluster. If no value is provided to this parameter then policy is applicable to all computes.", defaultValue: [],

Log filter expressions, description: "List of log filter expressions used to filter logs. Ex. ^prefix1.*$",

datastore, description: "Datastore used to store filtered logs. Ex. LogsDatastore which is configured in AML.", defaultValue: \\

Ensure services listen only on allowed ports in Kubernetes cluster.

Allowed service ports list, description: "The list of service ports allowed in a Kubernetes cluster.", defaultValue: [],

Namespace exclusions, description: "List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional.", defaultValue: []

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Effect","description":"Enable or disable the execution of the policy"},"allowedValues":[]}],"policyRule":[]}},"excludeDNamespaces":[]}},"id":"/providers/Microsoft.Authorization/policyDefinitions/440b515e-a580-421e-abeb-b159a61dccbc","type":"Microsoft.Authorization/policyDefinitions","name":"440b515e-a580-421e-abeb-b159a61dccbc"},
{
"properties":
{
"displayName":
"Enforce labels on pods in Kubernetes cluster","policyType":"BuiltIn","mode":"Microsoft.Kubernetes.Data","description":
"This policy enforces the specified labels are provided for pods in a Kubernetes cluster. For instructions on using this policy, visit https://aka.ms/kubepolicydoc."},
"metadata":
{
"version":"3.0.0-preview","category":"Kubernetes","preview":true,"parameters":
{
"labelsList":[]}},"id":"/providers/Microsoft.Authorization/policyDefinitions/46592696-4c7b-4bf3-9e45-6c2763bdc0a6","type":"Microsoft.Authorization/policyDefinitions","name":"46592696-4c7b-4bf3-9e45-6c2763bdc0a6"},
{
"properties":
{
"displayName":
"Configure allowed module authors for specified Azure Machine Learning computes","policyType":"BuiltIn","mode":"Microsoft.MachineLearningServices.Data","description":
"This policy helps provide allowed module authors in specified Azure Machine Learning computes and can be assigned at the workspace. For more information, visit https://aka.ms/amlpolicydoc."},
"metadata":
{
"version":"1.0.0-preview","category":"Machine Learning","preview":true,"parameters":[]}
}}},
{
"properties":
{
"displayName":
"Exclude names from policy evaluation from Kubernetes namespaces. Providing a value for this parameter is optional."},
"id":"/providers/Microsoft.Authorization/policyDefinitions/46592696-4c7b-4bf3-9e45-6c2763bdc0a6","type":"Microsoft.Authorization/policyDefinitions","name":"46592696-4c7b-4bf3-9e45-6c2763bdc0a6"},
{
"properties":
{
"displayName":
"Exclude names from policy evaluation from Kubernetes namespaces. Providing a value for this parameter is optional."}}

Enforce labels on pods in Kubernetes cluster, "policyType": "BuiltIn", "mode": "Microsoft.Kubernetes.Data", "description": "This policy enforces the specified labels are provided for pods in a Kubernetes cluster. For instructions on using this policy, visit https://aka.ms/kubepolicydoc.",

Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["enforceOPAConstraint", "disabled"], "defaultValue": "enforceOPAConstraint"}, "excludeDNamespaces": [], "id": "/providers/Microsoft.Authorization/policyDefinitions/440b515e-a580-421e-abeb-b159a61dccbc", "type": "Microsoft.Authorization/policyDefinitions", "name": "440b515e-a580-421e-abeb-b159a61dccbc", "properties": {
".displayName": "Enforce labels on pods in Kubernetes cluster", "policyType": "BuiltIn", "mode": "Microsoft.Kubernetes.Data", "description": "This policy enforces the specified labels are provided for pods in a Kubernetes cluster. For instructions on using this policy, visit https://aka.ms/kubepolicydoc.", "metadata": {"version": "3.0.0-preview", "category": "Kubernetes", "preview": true}, "parameters": {"labelsList": [], "effect": "enforceOPAConstraint"}, "excludeDNamespaces": []}}

Configure allowed module authors for specified Azure Machine Learning computes, "policyType": "BuiltIn", "mode": "Microsoft.MachineLearningServices.Data", "description": "This policy helps provide allowed module authors in specified Azure Machine Learning computes and can be assigned at the workspace. For more information, visit https://aka.ms/amlpolicydoc.", "metadata": {"version": "1.0.0-preview", "category": "Machine Learning", "preview": true}, "parameters": []}}

Compute names where Azure ML jobs run, "description": "List of compute names where this policy should be applied. Ex. cpu-cluster;gpu-cluster. If no value is provided, the policy will be applied to all computes.
is provided to this parameter then policy is applicable to all computes.

Allowed module authors, "description": List of allowed module authors. Ex. authormap@contoso.com

Effect", "description": "Enable or disable the execution of the policy.

allowedValues: ["enforceSetting", "disabled"], "defaultValue": "enforceSetting"

policyRule: {"if": 


[parameters(computeNames)]], 

[value]: [length(parameters(computeNames))], 

equals: 0

then": 

effect: 

[parameters(effect)

"details": 

.setting": 

[name": allowedModuleAuthors", 

.value": 

[parameters(allowedModuleAuthors)]]

"

"id": 

/providers/Microsoft.Authorization/policyDefinitions/53c70b02-63dd-11ea-bc55-0242ac130003","type": 

"Microsoft.Authorization/policyDefinitions", 

"name": "53c70b02-63dd-11ea-bc55-0242ac130003", 

"properties": 

["displayName": "[Preview]:

Configure allowed registries for specified Azure Machine Learning computes", "policyType": "BuiltIn", "mode": "Microsoft.MachineLearningServices.Data", "description": "This policy helps provide registries that are allowed in specified Azure Machine Learning computes and can be assigned at the workspace. For more information, visit https://aka.ms/amlpolicydoc.

Compute names where Azure ML jobs run", "description": "List of compute names where this policy should be applied. Ex. cpu-cluster; gpu-cluster. If no value is provided to this parameter then policy is applicable to all computes.

allowedACRs: ["type": "Array", "metadata": 

["displayName": "[Preview]

"details": 

.setting": 

[name": allowedACRs", 

.value": 

[parameters(allowedACRs)]]

"

"id": 

/providers/Microsoft.Authorization/policyDefinitions/5853517a-63de-11ea-bc55-0242ac130003","type": 

"Microsoft.Authorization/policyDefinitions", 

"name": "5853517a-63de-11ea-bc55-0242ac130003", 

"properties": 

["displayName": "[Deprecated]:

Ensure only allowed container images in AKS", "policyType": "BuiltIn", "mode": "Microsoft.ContainerService.Data", "description": "This policy ensures only allowed container images are running in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.

allowedContainerImagesRegex: ["type": "String", "metadata": 

["display Name": "[Deprecated]

Allowed container images regex", "description": "Regex representing container images allowed in Kubernetes cluster. E.g. Regex of azure container registry images is ^azurecr.io/.*$", "effect": ["type": "String", "metadata": 

["display Name": "[Deprecated]

Effect", "description": "Enable or disable the execution of the policy.

AllowedValues: ["EnforceRegoPolicy", "Disabled"], "defaultValue": "EnforceRegoPolicy"

"policyRule":

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Configure allowed Python packages for specified Azure Machine Learning compute nodes, "policyType": "BuiltIn", "mode": "Microsoft.MachineLearningServices.Data", "description": "This policy helps provide allowed Python packages in specified Azure Machine Learning compute nodes and can be assigned at the workspace. For more information, visit https://aka.ms/mlpolicydoc.

- Compute names where Azure ML jobs run, "description": "List of compute names where this policy should be applied. Ex. cpu-cluster;gpu-cluster. If no value is provided to this parameter then policy is applicable to all compute nodes.", "defaultValue": [], "allowedPythonPackageChannels": {"type": "Array", "defaultValue": []}, "effect": "Enable or disable the execution of the policy.", "allowedValues": ["enforceSetting", "disabled"], "defaultValue": "enforceSetting" }

Do not allow privileged containers in AKS, "policyType": "BuiltIn", "mode": "Microsoft.ContainerService.Data", "description": "This policy does not allow privileged containers creation in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.", "metadata": {"version": "1.0.1-deprecated", "category": "Kubernetes service", "deprecated": true }, "parameters": {"effect": {"type": "String", "value": "disabled"}, "allowedValues": ["EnforceRegoPolicy", "Disabled"], "defaultValue": "EnforceRegoPolicy" }

Manage certificates issued by an integrated CA, "policyType": "BuiltIn", "mode": "Microsoft.KeyVault.Data", "description": "This policy manages certificates are issued by a specified key vault integrated"
Certificate Authority.","metadata":{"version":"1.0.0-preview","category":"Key
Vault","preview":true},"parameters":{"allowedCAs":{"type":"Array","metadata":{"displayName":"[Preview]:
Allowed Azure Key Vault Supported CAs","description":"The list of allowed
certificate authorities supported by Azure Key
Vault."},"allowedValues":["DigiCert","GlobalSign"],"defaultValue":["DigiCert","GlobalSign"]},"effect":{"type":"S
tring","metadata":{"displayName":"[Preview]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["audit","deny","disabled"],"defaultValue":"audit"}},"policyRule":{"if":{"field":"Micros
oft.KeyVault.Data/vaults/certificates/issuer.name","notIn":"[parameters(''allowedCAs'')]"},"then":{"effect":"[param
eters(''effect'')]"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/8e826246-c976-48f6-b03e619bb92b3d82","type":"Microsoft.Authorization/policyDefinitions","name":"8e826246-c976-48f6-b03e619bb92b3d82"},{"properties":{"displayName":"[Preview]:
Do not allow privileged containers in Kubernetes
cluster","policyType":"BuiltIn","mode":"Microsoft.Kubernetes.Data","description":"This
policy does not allow privileged containers creation in a Kubernetes cluster.
For instructions on using this policy, visit https://aka.ms/kubepolicydoc.","metadata":{"version":"3.0.0preview","category":"Kubernetes","preview":true},"parameters":{"effect":{"type":"String","metadata":{"displayNa
me":"[Preview]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["enforceOPAConstraint","disabled"],"defaultValue":"enforceOPAConstraint"},"exclude
dNamespaces":{"type":"Array","metadata":{"displayName":"[Preview]:
Namespace exclusions","description":"List of Kubernetes namespaces to exclude
from policy evaluation. Providing a value for this parameter is
optional."},"defaultValue":[]}},"policyRule":{"if":{"field":"type","in":["AKS
Engine","Microsoft.Kubernetes/connectedClusters","Microsoft.ContainerService/managedClusters"]},"then":{"effec
oviders/Microsoft.Authorization/policyDefinitions/95edb821-ddaf-4404-9732666045e056b4","type":"Microsoft.Authorization/policyDefinitions","name":"95edb821-ddaf-4404-9732666045e056b4"},{"properties":{"displayName":"[Preview]:
Manage certificates issued by a non-integrated
CA","policyType":"BuiltIn","mode":"Microsoft.KeyVault.Data","description":"This
policy manages certificates are issued by a specified non-integrated Certificate
Authority.","metadata":{"version":"1.0.0-preview","category":"Key
Vault","preview":true},"parameters":{"caCommonName":{"type":"String","metadata":{"displayName":"[Preview]:
The common name of the certificate authority","description":"The common name
(CN) of the Certificate Authority (CA) provider. For example, for an issuer
CN = Contoso, OU = .., DC = .., you can specify
Contoso"}},"effect":{"type":"String","metadata":{"displayName":"[Preview]:
Effect","description":"Enable or disable the execution of the
policy"},"allowedValues":["audit","deny","disabled"],"defaultValue":"audit"}},"policyRule":{"if":{"field":"Micros
oft.KeyVault.Data/vaults/certificates/issuer.commonName","notContains":"[parameters(''caCommonName'')]"},"the
n":{"effect":"[parameters(''effect'')]"}}},"id":"/providers/Microsoft.Authorization/policyDefinitions/a22f4a40-01d34c7d-8071-da157eeff341","type":"Microsoft.Authorization/policyDefinitions","name":"a22f4a40-01d3-4c7d-8071da157eeff341"},{"properties":{"displayName":"[Deprecated]:

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Ensure CPU and memory resource limits defined on containers in AKS', "policyType": "BuiltIn", "mode": "Microsoft.ContainerService.Data", "description": "This policy ensures CPU and memory resource limits are defined on containers in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.", "metadata": {"version": "1.0.1-deprecated", "category": "Kubernetes service", "deprecated": true }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["EnforceRegoPolicy", "Disabled"], "defaultValue": "EnforceRegoPolicy" } }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.ContainerService/managedClusters" }, "then": { "effect": ["parameters(''effect'')"] }, "details": { "policyId": "ContainerResourceLimits", "policy": "https://raw.githubusercontent.com/Azure/azure-policy/master/built-in-references/KubernetesService/container-resource-limits/limited-preview/gatekeeperpolicy.rego" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/a2d3ed81-8d11-4079-80a5-1faadc0024f4", "type": "Microsoft.Authorization/policyDefinitions", "name": "a2d3ed81-8d11-4079-80a5-1faadc0024f4", "properties": {"displayName": "[Deprecated]: Enforce internal load balancers in AKS", "policyType": "BuiltIn", "mode": "Microsoft.ContainerService.Data", "description": "This policy enforces load balancers do not have public IPs in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.", "metadata": {"version": "1.0.1-deprecated", "category": "Kubernetes service", "deprecated": true }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["EnforceRegoPolicy", "Disabled"], "defaultValue": "EnforceRegoPolicy" } }, "policyRule": { "if": { "field": "type", "equals": "Microsoft.ContainerService/managedClusters" }, "then": { "effect": ["parameters(''effect'')"] }, "details": { "policyId": "LoadBalancersInternal", "policy": "https://raw.githubusercontent.com/Azure/azure-policy/master/built-in-references/KubernetesService/loadbalancer-no-publicips/limited-preview/gatekeeperpolicy.rego" } } }, "id": "/providers/Microsoft.Authorization/policyDefinitions/a74d8f00-2fd9-4ce4-968e-0ee1eb821698", "type": "Microsoft.Authorization/policyDefinitions", "name": "a74d8f00-2fd9-4ce4-968e-0ee1eb821698", "properties": {"displayName": "[Deprecated]: Enforce unique ingress hostnames across namespaces in Kubernetes cluster", "policyType": "BuiltIn", "mode": "Microsoft.Kubernetes.Data", "description": "This policy enforces unique ingress hostnames across namespaces in a Kubernetes cluster. For instructions on using this policy, please go to https://aka.ms/kubepolicydoc.", "metadata": {"version": "2.0.1-deprecated", "category": "Kubernetes", "deprecated": true }, "parameters": {"effect": {"type": "String", "metadata": {"displayName": "[Deprecated]: Effect", "description": "Enable or disable the execution of the policy"}, "allowedValues": ["enforceOPAConstraint", "disabled"], "defaultValue": "enforceOPAConstraint" } }, "excludedNamespaces": {"type": "Array", "metadata": {"displayName": "[Deprecated]: Namespace exclusions", "description": "List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional."}, "defaultValue": [] } }, "policyRule": { "if": { "field": "type", "in": ["AKS Engine", "Microsoft.Kubernetes/connectedClusters"], "then": { "effect": ["parameters(''effect'')"] }, "details": { "constraintTemplate": "https://raw.githubusercontent.com/Azure/azure-policy/master/built-in-references/Kubernetes/ingress-hostnames-conflict/template.yaml", "constraint": "https://raw.githubusercontent.com/Azure/azure-policy/master/built-in-references/Kubernetes/ingress-hostnames-conflict/constraint.yaml", "values": ["excludedNamespaces": ["parameters(''excludedNamespaces'')"] ] } } } } } } }},
Manage allowed curve names for elliptic curve cryptography certificates.

This policy manages the allowed elliptic curve names for elliptic curve cryptography certificates.

- **Policy Definition ID**: /providers/Microsoft.Authorization/policyDefinitions/b2fd3e59-6390-4f2b-8247-ea676bd03e2d
- **Policy Name**: b2fd3e59-6390-4f2b-8247-ea676bd03e2d
- **Display Name**: [Preview]: Manage allowed curve names for elliptic curve cryptography certificates
- **Policy Type**: BuiltIn
- **Mode**: Microsoft.KeyVault.Data
- **Description**: This policy manages the allowed elliptic curve names for elliptic curve cryptography certificates.
- **Metadata**: Version: 1.0.0-preview, Category: Key Vault
- **Parameters**:
  - **allowedECNames**: Array of allowed elliptic curve names
  - **defaultValue**: ["P-256", "P-256K", "P-384", "P-521"]
- **Effect**:
  - Audit

Manage minimum key size for RSA certificates.

This policy manages the minimum key size for RSA certificates.

- **Policy Definition ID**: /providers/Microsoft.Authorization/policyDefinitions/cee51871-e572-4576-855c-047c820360f0
- **Policy Name**: cee51871-e572-4576-855c-047c820360f0
- **Display Name**: [ Deprecated]: Enforce unique ingress hostnames across namespaces in AKS
- **Policy Type**: BuiltIn
- **Mode**: Microsoft.ContainerService.Data
- **Description**: This policy enforces unique ingress hostnames across namespaces in an Azure Kubernetes Service cluster. This policy is deprecated, please visit https://aka.ms/kubepolicydoc for instructions on using new Kubernetes policies.
- **Metadata**: Version: 1.0.1-deprecated, Category: Kubernetes
- **Parameters**:
  - **defaultValue**: ["2048", "3072", "4096"]
- **Effect**:
  - EnforceRegoPolicy
Ensure container CPU and memory resource limits do not exceed the specified limits in Kubernetes cluster.

Max allowed CPU units

Max allowed memory bytes

Manage certificates that are within a specified number of days of expiration

Ensure only allowed container images in Kubernetes
This policy ensures only allowed container images are running in a Kubernetes cluster.

For instructions on using this policy, visit https://aka.ms/kubepolicydoc.

Allowed container images regex, description: The RegEx rule used to match allowed container images in a Kubernetes cluster. For example, to allow any Azure Container Registry image by matching partial path: ^\^azurecr.io/+.+$

Effect, description: "Enable or disable the execution of the policy" , allowedValues: ["enforceOPAConstraint", "disabled" ] , default: "enforceOPAConstraint" , exclude

dNamespaces: ["type": "Array", "metadata": {"displayName": "Namespace exclusions", "description": "List of Kubernetes namespaces to exclude from policy evaluation. Providing a value for this parameter is optional.", "defaultValue": []}]

create a VM anywhere, metadata: {"createdBy": "123743cc-88ef-49ee-920e-13958fe5697d", "created": "2020-06-05T02:26:18.6776083Z", "lastUpdated": null}, policyRule: {"if": {"allOf": ["Microsoft.Compute/virtualMachines/write" ] }, "then": {"effect": "deny" }}

can be specified when deploying resources, "strongType": "location" ] }, policyRule: {"if": {"anyOf": ["Microsoft.HDInsight/clusters", {"field": "location", "in": ["eastus", "eastus2", "centralus"]}], then": {"effect": "deny" }}

b766155f2792/providers/Microsoft.Authorization/policyDefinitions/11094169db59074f"],
  "type": "Microsoft.Authorization/policyDefinitions",
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  "properties": {
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    "policyType": "Custom",
    "mode": "All",
    "metadata": {
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      "createdOn": "2020-02-24T19:32:57.4990001Z",
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      "updatedOn": null,
      "parameters": {
        "effect": {
          "type": "String",
          "metadata": {
            "displayName": "Effect",
            "description": "Enable or disable the execution of the policy",
            "allowedValues": ["Audit", "Deny", "Disabled"],
            "defaultValue": "Audit"
          }
        },
        "allowedLocations": {
          "type": "Array",
          "metadata": {
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            "description": "The list of locations that can be specified when deploying resources",
            "strongType": "location"
          }
        }
      }
    }
  }},
  
  "id": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/1b0f9cd579f5f04a",
  "type": "Microsoft.Authorization/policyDefinitions",
  "name": "1b0f9cd579f5f04a",
  "properties": {
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    "policyType": "Custom",
    "mode": "All",
    "metadata": {
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      "createdOn": "2019-07-09T18:15:23.2021003Z",
      "updatedBy": null,
      "updatedOn": null,
      "parameters": {
        "allowedLocations": {
          "type": "Array",
          "metadata": {
            "displayName": "Allowed locations",
            "description": "The list of locations that can be specified when deploying resources",
            "strongType": "location"
          }
        },
        "ruleNo": {
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          "metadata": {
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            "description": "The priority slot for the new rule",
            "allowedValues": ["100", "101", "102", "103", "104", "105", "106", "107", "108", "109"]
          }
        },
        "info": {
          "type": "String",
          "metadata": {
            "displayName": "Description",
            "description": "A description",
            "defaultValue": ""
          }
        },
        "destinationPortRanges": {
          "type": "Array",
          "metadata": {
            "displayName": "Port Numbers",
            "description": "Security rule port numbers must match these numbers",
            "defaultValue": null
          }
        },
        "subscriptionExclusions": {
          "type": "Array",
          "metadata": {
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            "description": "Excluded subscriptions from policy due to security exceptions",
            "defaultValue": null
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        },
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          "metadata": {
            "displayName": "protocol",
            "description": "Protocol for the rule",
            "allowedValues": ["*", "Tcp", "Udp"]
          }
        },
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          "metadata": {
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          }
        },
        "sourceValue": {
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          "metadata": {
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            "description": null
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        },
        "actionValue": {
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          "metadata": {
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            "description": null,
            "allowedValues": ["Allow", "Deny"]
          }
        },
        "direction": {
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          "metadata": {
            "displayName": "direction",
            "description": null
          }
        },
        "allowValues": {
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          "metadata": {
            "displayName": "allowValues",
            "description": null
          }
        },
        "TagName": {
          "type": "String",
          "metadata": {
            "displayName": "TagName",
            "description": null
          }
        }
      }
    }
  }
}
Name","description":"Rule is not deployed if this tag exists on the
NSG"},"allowedValues":["NA","NRMSException","SkipNRMSCorp","nrmsskipcorpnetsaw","SkipNRMSSAW","
SkipNRMSDatabricks","SkipNRMSRDPSSH","SkipNRMSMgmt","SkipNRMSHigh","SkipNRMSVNet","SkipNR
MSLoadBal","SkipNRMSDB","SkipNRMSMedium"],"defaultValue":"NA"}},"policyRule":{"if":{"allOf":[{"field"
:"type","equals":"Microsoft.Network/networkSecurityGroups"},{"field":"location","in":"[parameters(''allowedLocat
ions'')]"},{"field":"[concat(''tags['',
parameters(''tagName''),
'']'')]","exists":"false"},{"field":"tags[''SkipNRMSAll'']","exists":"false"},{"value":"[subscription().subscriptionId]",
"notIn":"[parameters(''subscriptionExclusions'')]"}]},"then":{"effect":"deployIfNotExists","details":{"type":"Micros
efinitions/4d97b98b-1d4f-4787-a291c67834d212e7"],"existenceCondition":{"anyOf":[{"allOf":[{"field":"fullName","equals":"[concat(field(''name''),''/'','
'NRMS-Rule-'',
parameters(''ruleNo''))]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/priority","equals":"[pa
rameters(''ruleno'')]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/sourceAddressPrefix","eq
uals":"[parameters(''sourceValue'')]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/access","e
quals":"[parameters(''actionValue'')]"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/direction
","equals":"[parameters(''direction'')]"}]},{"allOf":[{"field":"fullName","contains":"Cleanuptool-Deny103"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/priority","equals":"103"},{"field":"Micro
yGroups/securityRules/direction","equals":"Inbound"}]}]},"deployment":{"properties":{"mode":"incremental","tem
plate":{"$schema":"https://schema.management.azure.com/schemas/2015-0101/deploymentTemplate.json#","contentVersion":"1.0.0.0","parameters":{"fullName":{"type":"string"},"ruleNo":{"
type":"String"},"destinationPortRanges":{"type":"Array"},"protocol":{"type":"String"},"sourceType":{"type":"Strin
g"},"sourceValue":{"type":"String"},"actionValue":{"type":"String"},"direction":{"type":"String"},"info":{"type":"
String"}},"variables":{"SourceArr":"[split(parameters(''sourceValue''),'','')]","appSecGroups":{"copy":[{"name":"val
ues","count":"[length(variables(''SourceArr''))]","input":{"id":"[if(equals(parameters(''sourceType''),''App
Security Group''),if(contains(variables(''SourceArr'')[copyindex(''values'')],''subscriptions''),
variables(''SourceArr'')[copyindex(''values'')],resourceId(''Microsoft.Network/applicationSecurityGroups'',
variables(''SourceArr'')[copyindex(''values'')])),
'''')]"}}]}},"resources":[{"type":"Microsoft.Network/networkSecurityGroups/securityRules","name":"[concat(param
eters(''fullName''),''/'',''NRMS-Rule-'',
parameters(''ruleNo''))]","apiVersion":"2017-1001","scale":null,"properties":{"protocol":"[parameters(''protocol'')]","description":"[parameters(''info'')]","sourcePort
Range":"*","sourceAddressPrefix":"[if(equals(parameters(''sourceType''),''Service
Tag''),parameters(''sourceValue''),json(''null''))]","sourceAddressPrefixes":"[if(equals(parameters(''sourceType''),''IP
Addresses''),variables(''SourceArr''),json(''null''))]","sourceApplicationSecurityGroups":"[if(equals(parameters(''sour
ceType''),''App
Security Group''),variables(''appSecGroups'').values,json(''null''))]","destinationPortRanges":"[if
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parameters(''destinationPortRanges''))]","destinationPortRange":"[if
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json(''null''))]","destinationAddressPrefix":"*","destinationApplicationSecurityGroups":[],"access":"[parameters(''act
ionValue'')]","priority":"[parameters(''ruleNo'')]","direction":"[parameters(''direction'')]"}}]},"parameters":{"fullNa
me":{"value":"[field(''fullName'')]"},"ruleNo":{"value":"[parameters(''ruleNo'')]"},"destinationPortRanges":{"value"
:"[parameters(''destinationPortRanges'')]"},"protocol":{"value":"[parameters(''protocol'')]"},"sourceType":{"value":"

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The list of locations that can be specified when deploying resources.
The priority slot for the new rule.
The protocol for the rule.
Addresses, Service Tag, App Security Group.
Description.
A rule.
Deployment conditions.
Existing conditions.
Deployment properties.
Template.

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String"}}, "variables": {
  "SourceArr": [split(parameters("sourceValue"), "," )],
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  {
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      "count": 
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      "input": {
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        if (equals(parameters("sourceType"), 
        "App Security Group"),
        contains(variables("SourceArr"), "subscriptions"),
        resourceId("Microsoft.Network/applicationSecurityGroups", variables("SourceArr"))
      },
      "variables": {
        "SourceArr": [copyindex("values")]
      }
    }
  },
  "resources": {
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    "apiVersion": "2017-10-01",
    "scale": null,
    "properties": {
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      "description": parameters("info"),
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      "Service Tag"),
      variables("sourceValue"), null ),
      "sourceAddressPrefixes": 
      if (equals(parameters("sourceType"), 
      "IP Addresses"), variables("SourceArr"), null ),
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      "App Security Group"),
      variables("appSecGroups").values, null ),
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    "priority": [parameters("ruleNo")],
    "direction": [parameters("direction")]
  }
}}
}}}, 
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    "updatedBy": null,
    "updatedOn": null,
    "parameters": {
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        "description": "The list of locations that can be specified when deploying resources.", "strongType": "location" }],
      "ruleNo": ["type": "String", "metadata": {
        "displayName": "Priority",
        "description": "The priority slot for the new rule" }],
      "allowedValues": ["100", "101", "102", "103", "104", "105", "106", "107", "108", "109"],
      "info": ["type": "String", "metadata": {
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        "description": "A description" }],
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        "displayName": "Port Number",
        "description": "Security rule port numbers must match these numbers" }],
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        "displayName": "Subscriptions Excluded",
        "description": "Subscriptions excluded from policy due to security exceptions" }],
      "protocol": ["type": "String", "metadata": {
        "displayName": "Protocol" }]
    }
  }
}
ionValue"), "priority": "parameters("ruleNo")", "direction": "parameters("direction")" } } }, "parameters": { "fullyName": "value", "[field("fullyName")]", "ruleNo": "value", "parameters("ruleNo")", "destinationPortRanges": "value", "[parameters("destinationPortRanges")]", "protocol": "value", "[parameters("protocol")]", "sourceType": "value", "[parameters("sourceType")]", "sourceValue": "value", "[parameters("sourceValue")]", "actionValue": "value", "[parameters("actionValue")]", "direction": "value", "[parameters("direction")]", "info": "value", "[value:parameters("info")]">

01", scale: null, properties: {
  "protocol": [parameters("protocol")],
  "description": [parameters("info")],
  "sourcePortRange": "+", "sourceAddressPrefix": [if (equals(parameters("sourceType"), "ServiceTag"), parameters("sourceValue"), json("null"))],
  "sourcePortRanges": [if (equals(parameters("sourceType"), "IP Addresses"), variables("SourceArr"), json("null"))],
  "sourceApplicationSecurityGroups": [if (equals(parameters("sourceType"), "App
  Security Group"), variables("appSecGroups"), values(), json("null"))],
  "destinationPortRanges": [if (equals(1, length(parameters("destinationPortRanges")))), json("null"),
    parameters("destinationPortRanges")],
  "destinationPortRange": [if (equals(1, length(parameters("destinationPortRanges")))),
    parameters("destinationPortRanges")][0],
  "sourceAddressPrefix": "+", "destinationApplicationSecurityGroups": [],
  "access": [parameters("actionValue")],
  "priority": [if (equals(parameters("ruleNo")), [parameters("direction")])],
  "parameters": {
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    "ruleNo": [if (equals(parameters("ruleNo")), [parameters("destinationPortRanges"))],
    "protocol": [if (equals(parameters("protocol")), [parameters("sourceType"))],
    "sourceValue": [if (equals(parameters("sourceType"), "App
  Security Group"), variables("appSecGroups").values(), json("null"))],
    "actionValue": [if (equals(parameters("actionValue")), [parameters("destinationPortRanges"))],
    "direction": [if (equals(parameters("destinationPortRanges")), json("null"))],
    "info": [if (equals(parameters("info")), [if (field("fullName"))],
    "parameters": [field("fullName"))]]},
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  type: "Microsoft.Authorization/policyDefinitions",
  name: "42c70bae0daee0b3",
  properties: {
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    "policyType": "Custom",
    "mode": "All",
    "metadata": {
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      "createdOn": "2020-02-24T21:28:59.0487626Z",
      "updatedBy": null,
      "updatedOn": null,
      "parameters": {
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        "metadata": ["displayName": "Allowed
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  resources.", "strongType": "location"],
        "ruleNo": ["type": "String",
          "metadata": ["displayName": "Priority", "description": "The
  priority slot for the new rule"],
          "allowedValues": ["100", "101", "102", "103", "104", "105", "106", "107", "108", "109"],
          "info": ["type": "String",
            "metadata": ["displayName": "Description", "description": "A
description"],
            "defaultValue": ""],
          "destinationPortRanges": ["type": "Array",
            "metadata": ["displayName": "Port
  Number", "description": "Security rule port numbers must match these
  numbers"],
            "defaultValue": ""],
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            "metadata": ["displayName": "Subscriptions
  Excluded"],
            "defaultValue": ""],
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            "metadata": ["displayName": "protocol", "description": "P
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  rule"],
            "allowedValues": ["*", "Tcp", "Udp"]],
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          "metadata": ["displayName": "sourceType"],
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  Group"],
          "sourceValue": ["type": "String",
            "metadata": ["displayName": "sourceValue", "description": "null"],
            "allowedValues": ["IP
  Addresses", "Service Tag", "App Security
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This policy audits whether any Linux VMs use password-only authentication for SSH on new resources.

**Metadata**
- **Created By:** 1f75b9dd-4f1d-4e80-9521-321a8b1f5764
- **Created On:** 2020-05-12T23:41:56.0529781Z
- **Updated By:** null
- **Updated On:** null

**Parameters**
- **Allowed Locations:**
  - Type: Array
  - Description: The list of locations that can be specified when deploying resources.
  - Strong Type: location
- **Resource Tag Name:**
  - Type: String
  - Description: Rule is not deployed if this tag exists on the Virtual Machine
- **Resource Group Tag Name:**
  - Type: String
  - Description: Rule is not deployed if this tag exists on the Resource Group
- **Subscription Tag Name:**
  - Type: String
  - Description: Rule is not deployed if this tag exists on the Subscription

**Policy Rule**
- If:
  - All Of:
    - Condition:
      - Field: location
      - Value: ![parameters('allowedLocations')]
    - Condition:
      - Field: Microsoft.Compute/virtualMachines
      - Value: ![subscription().tags[parameters('subscriptiontagName')]]
    - Condition:
      - Microsoft.Compute/virtualMachines/osProfile.linuxConfiguration.disablePasswordAuthentication
      - Value: false
    - Any Of:
      - Microsoft.Compute/imagePublisher: 7isolutions
      - Microsoft.Compute/imageOffer: sapp
      - Microsoft.Compute/imagePublisher: 128technology
      - Microsoft.Compute/imageOffer: 128networking_platform
      - Microsoft.Compute/imagePublisher: 4psa
      - Microsoft.Compute/imagePublisher: a10networks
      - Microsoft.Compute/imagePublisher: abiquo
      - Microsoft.Compute/imagePublisher: actifio
      - Microsoft.Compute/imagePublisher: actian_matrix
      - Microsoft.Compute/imagePublisher: actian_corp
      - Microsoft.Compute/imagePublisher: acronis
      - Microsoft.Compute/imagePublisher: activeeon
      - Microsoft.Compute/imagePublisher: aeroaspike
      - Microsoft.Compute/imagePublisher: aerospike
      - Microsoft.Compute/imagePublisher: aiscaler-cache-control-ddos-and-url-rewriting
      - Microsoft.Compute/imagePublisher: aimobile-site-acceleration
      - Microsoft.Compute/imagePublisher: aiprotect-ddos-firewall
      - Microsoft.Compute/imagePublisher: aiscaler-traffic-manager
Open Source Used In SDWan 20.6.1

- Microsoft.Compute/imagePublisher: "bloombase"
  - Microsoft.Compute/imageOffer: "bluecat-bam-for-azure", "bluecat-dns-for-azure", "bluecat-edge-service-point-vm-for-azure"

- Microsoft.Compute/imagePublisher: "bluetalon"

- Microsoft.Compute/imagePublisher: "bluecat"
  - Microsoft.Compute/imageOffer: "bluecat-bam-for-azure", "bluecat-dns-for-azure", "bluecat-edge-service-point-vm-for-azure"

- Microsoft.Compute/imagePublisher: "bluetalon"
  - Microsoft.Compute/imageOffer: "bluecat-bam-for-azure", "bluecat-dns-for-azure", "bluecat-edge-service-point-vm-for-azure"

- Microsoft.Compute/imagePublisher: "brocade Communications"

- Microsoft.Compute/imagePublisher: "bt-americas-inc"

- Microsoft.Compute/imagePublisher: "buddhalabs"
  - Microsoft.Compute/imageOffer: "cartobuilder2"

- Microsoft.Compute/imagePublisher: "carto"
  - Microsoft.Compute/imageOffer: "cds-data-migration-solution-for-legacy-to-cloud"

- Microsoft.Compute/imagePublisher: "cask"
  - Microsoft.Compute/imageOffer: "cdap-cloud-sandbox"

- Microsoft.Compute/imagePublisher: "cis-ubuntu-linux-1404-v2-0-0-0-l1", "cis-ubuntu-linux-1604-v1-0-0-11"

- Microsoft.Compute/imagePublisher: "certivox"
  - Microsoft.Compute/imageOffer: "sso-test"

- Microsoft.Compute/imagePublisher: "chef-automate-vm-image"
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- Microsoft.Compute/imagePublisher: "chef-software"
  - Microsoft.Compute/imageOffer: "chef-automate-vm-image"

- Microsoft.Compute/imagePublisher: "cires21"
  - Microsoft.Compute/imageOffer: "circleci-enterprise"


- Microsoft.Compute/imagePublisher: "citrix"

- Microsoft.Compute/imagePublisher: "clear-linux"
Open Source Used In SDWan 20.6.1  18150

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Open Source Used In SDWan 20.6.1  18150
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'']'')]","exists":"false"},{"field":"tags[''SkipNRMSAll'']","exists":"false"},{"value":"[subscription().subscriptionId]",
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","equals":"[parameters(''direction'')]"}]},{"allOf":[{"field":"fullName","equals":"Cleanuptool-Deny103"},{"field":"Microsoft.Network/networkSecurityGroups/securityRules/priority","equals":"103"},{"field":"Micro
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Security Group''), if (contains(variables('SourceArr')[copyindex('values')], "subscriptions"), variables('SourceArr')[copyindex('values')], resourceId('Microsoft.Network/applicationSecurityGroups', variables('SourceArr')[copyindex('values')]),
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  "properties": {
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    }
  }
}],
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"type": "Microsoft.Authorization/policyDefinitions",
"name": "8d69d8ee570b639",
"properties": {
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  "policyType": "Custom",
  "mode": "All",
  "metadata": {
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    "updatedOn": null
  },
  "parameters": {
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        "description": "The list of locations that can be specified when deploying resources.",
        "strongType": "location"
      },
      "ruleNo": {
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        "metadata": {
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      "info": {
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        "metadata": {
          "displayName": "Port Number",
          "description": "Security rule port numbers must match these numbers"}
      },
      "subscriptionExclusions": {
        "type": "Array",
        "metadata": {
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          "description": "Subscriptions excluded from policy due to security exceptions"},
        "defaultValue": []
      },
      "protocol": {
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        "metadata": {
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          "description": "sourceValue"},
        "defaultValue": null},
        "allowedValues": ["Allow", "Deny"]
      }
    }}}}
This policy audits whether any Linux VMSSs use password-only authentication for
SSH on existing resources.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allowedLocations</td>
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<td>The list of locations that can be specified when deploying resources.</td>
</tr>
<tr>
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<td>Exclusion Tag Name</td>
</tr>
<tr>
<td>resourcegrouptagname</td>
<td>String</td>
<td>Exclusion Tag Name at the resource group level</td>
</tr>
<tr>
<td>subscriptiontagname</td>
<td>String</td>
<td>Exclusion Tag Name at the subscription level</td>
</tr>
<tr>
<td>type</td>
<td></td>
<td>The type of the policy</td>
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<tr>
<td>mode</td>
<td></td>
<td>The policy Mode</td>
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<tr>
<td>allowedValues</td>
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<td>The list of allowed values</td>
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<tr>
<td>destinationPortRanges</td>
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<td>The list of destination port ranges</td>
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<td>protocol</td>
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<td>The protocol</td>
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<tr>
<td>sourceType</td>
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<td>The source type</td>
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<tr>
<td>sourceValue</td>
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<td>The source value</td>
</tr>
<tr>
<td>actionValue</td>
<td></td>
<td>The action value</td>
</tr>
<tr>
<td>direction</td>
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<td>The direction</td>
</tr>
<tr>
<td>info</td>
<td></td>
<td>Additional information</td>
</tr>
</tbody>
</table>

This policy checks for the following conditions:

- The location must be in the allowedLocations array.
- The resource tag 'tag' must not exist.
- The resource group tag 'tag' must not exist.
- The subscription tag 'tag' must not exist.
- The type must be 'Microsoft.Compute/virtualMachineScaleSets'.
- The 'Microsoft.Compute/virtualMachineScaleSets/virtualMachineProfile.osProfile.linuxConfiguration.disablePasswordAuthentication' must be false.

If all conditions are met, the policy will audit the resource.
Exclusions, Subscriptions excluded from policy due to security exceptions,\n
```json
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"sourceValue":{"type":"String","metadata":{"displayName":null},
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"defaultValue":"NA"},

"policyRule":{"if":{"allOf":*
```
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Groups Excluded","description":"Any VNet in a resource group in this list will be ignored.
"
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"
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{
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}
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2018-11-01"
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}
}
,
"id":
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}
Open Source Used In SDWan
The list of locations that can be specified when deploying resources.

The priority slot for the new rule.

Security rule port numbers must match these numbers.

Subscriptions excluded from policy due to security exceptions.

A description.

A protocol for the rule.

A source type.

An action value.

An inbound or outbound rule.

A tag name.

Rule is not deployed if this tag exists on the NSG.

A policy rule.

A subscription exclusion.

IP Addresses.

A service tag.

An app security group.

A destination port range.

A protocol.

A source type.

A source value.

An action value.

An inbound or outbound direction.

A tag name.
Open Source Used In SDWan

20.6.1

18185
Open Source Used In SDWan

```
```
```
Open Source Used In SDWan 20.6.1

18188

...
Open Source Used In SDWan 20.6.1 18190

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Open Source Used In SDWan 20.6.1

18212
This policy audits whether any Linux VMSSs use password-only authentication for SSH on new resources.

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      metadata:
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        metadata:
          displayName: "Exclusion Tag Name",
          description: "Rule is not deployed if this tag exists on the Virtual Machine",
      resourcegrouptagname:
        type: String,
        metadata:
          displayName: "Exclusion Tag Name at the resource group level",
          description: "Rule is not deployed if this tag exists on the Resource Group",
    allowedLocations:
      type: Array,
      metadata:
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        description: "The list of locations that can be specified when deploying resources.",
      resourcetagname:
        type: String,
        metadata:
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          description: "Rule is not deployed if this tag exists on the Virtual Machine",
      resourcegrouptagname:
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        metadata:
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          description: "Rule is not deployed if this tag exists on the Resource Group",
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      metadata:
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        description: "The list of locations that can be specified when deploying resources.",
    resourcetagname:
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      metadata:
        displayName: "Exclusion Tag Name",
        description: "Rule is not deployed if this tag exists on the Virtual Machine",
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      type: string,
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        displayName: "Exclusion Tag Name at the resource group level",
        description: "Rule is not deployed if this tag exists on the Resource Group",
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    if:
      allOf:
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          in: [parameters('allowedLocations')]
        - field: [concat('tags', [parameters('resourcetagname')])]
          equals: ""
        - field: [concat('tags', [parameters('resourcegrouptagname')])]
          equals: ""
        - field: type
          equals: "Microsoft.Compute/virtualMachineScaleSets"
        - field: [concat('tags', [parameters('resourcetagname')])]
          exists: false
        - value:
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          exists: false
        - field:
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            - field:
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The list of locations that can be specified when deploying resources.

The priority slot for the new rule.

A description.

Port Number.

Security rule port numbers must match these numbers.

Subscriptions Excluded.

Subscriptions excluded from policy due to security exceptions.

Protocol for the rule.

Security rule port numbers must match these numbers.

Subscriptions excluded from policy due to security exceptions.

Protocol for the rule.

Security rule port numbers must match these numbers.

Subscriptions excluded from policy due to security exceptions.

Protocol for the rule.

Security rule port numbers must match these numbers.

Subscriptions excluded from policy due to security exceptions.
Security Group''), if(contains(variables('SourceArr')[copyindex('values')], "subscriptions"), variables('SourceArr')[copyindex('values')], resourceId('Microsoft.Network/applicationSecurityGroups', variables('SourceArr')[copyindex('values')]), """) ] }, "resources": [{ "type": "Microsoft.Network/networkSecurityGroups/securityRules", "name": [concat(parameters(fullName), "/", "NRMS-Rule-" , parameters(ruleNo))], "apiVersion": "2017-10-01", "scale": null, "properties": { "[protocol]: [parameters("protocol")], "description": [parameters("info")], "sourcePortRange": "*", "sourceAddressPrefix": [if(equals(parameters("sourceType"), "Service Tag"), parameters(sourceValue), json(null))], "sourceAddressPrefixes": [if(equals(parameters("sourceType"), "IP Addresses"), variables('SourceArr'), json(null))], "sourceApplicationSecurityGroups": [if(equals(parameters("sourceType"), "App Security Group"), variables(appSecGroups).values, json(null))], "destinationPortRange": [if(equals(1, length(parameters(destinationPortRanges))), json(null), parameters(destinationPortRanges))], "destinationPortRanges": [if(equals(1, length(parameters(destinationPortRanges))), json(null), parameters(destinationPortRanges))][0], "destinationAddressPrefix": "*", "destinationApplicationSecurityGroups": [], "access": [parameters(actionValue)], "priority": [parameters("ruleNo")], "direction": [parameters("direction")], "parameters": [{"full Name": [field(fullName)], "ruleNo": [value: [parameters("ruleNo")]], "destinationPortRanges": [value: [parameters(destinationPortRanges)]], "protocol": [value: [parameters("protocol")]], "sourceType": [value: [parameters("sourceType")]], "sourceValue": [value: [parameters("sourceValue")]], "actionValue": [value: [parameters(actionValue)]], "direction": [value: [parameters("direction")]], "info": [value: [parameters("info")]]}], "id": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b76615f2792/providers/Microsoft.Authorization/policyDefinitions/e788a85b5ac6ce0f", "type": "Microsoft.Authorization/policyDefinitions", "name": "e788a85b5ac6ce0f", "properties": {"displayName": "nrms-nsg-rule-109_1.2", "policyType": "Custom", "mode": "All", "metadata": ["createdBy": "1f75b9dd-4f1d-4e80-9521-321a8b1f5764", "createdAt": "2019-07-09T18:15:36.1193587Z", "updatedBy": null, "updatedOn": null], "parameters": {"allowedLocations": ["type": "Array", "metadata": {"displayName": "Allowed locations", "description": "The list of locations that can be specified when deploying resources.", "strongType": "location" }], "ruleNo": ["type": "String", "metadata": {"displayName": "Priority", "description": "The priority slot for the new rule"}, "allowedValues": ["100", "101", "102", "103", "104", "105", "106", "107", "108", "109"]], "info": ["type": "String", "metadata": {"displayName": "Description", "description": "A description"}, "defaultValue": ""], "destinationPortRanges": ["type": "Array", "metadata": {"displayName": "Port Number", "description": "Security rule port numbers must match these numbers"}], "subscriptionExclusions": ["type": "Array", "metadata": {"displayName": "Subscriptions Excluded", "description": "Subscriptions excluded from policy due to security exceptions"}, "defaultValue": []], "protocol": ["type": "String", "metadata": {"displayName": "Port", "description": "Protocol for the rule"}, "allowedValues": ["", "Tcp", "Udp"]], "sourceType": ["type": "String", "metadata": {"displayName": "sourceType", "description": "null"}], "actionValue": ["type": "String", "metadata": {"displayName": "actionValue", "description": "null"}], "allowedValues": ["Allow", "D"
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"protocol": {"type": "string"},
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   content-length:
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date:
   - Fri, 05 Jun 2020 02:26:20 GMT
expires:
   - '-1'
 pragma:
   - no-cache
strict-transport-security:
   - max-age=31536000; includeSubDomains
transfer-encoding:
   - chunked
 vary:
   - Accept-Encoding,Accept-Encoding
x-content-type-options:
   - nosniff
status:
   code: 200
   message: OK
request:
   body: null
   headers:
      Accept:
      - application/json
      Accept-Encoding:
      - gzip, deflate
      Connection:
      - keep-alive
User-Agent:
- python/3.6.9 (Linux-5.0.0-1032-azure-x86_64-with-Ubuntu-18.04-bionic) msrest/0.6.10
msrest_azure/0.6.2 azure-mgmt-resource/10.0.0 Azure-SDK-For-Python
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- en-US
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b766155f2792/providers/Microsoft.Authorization/policySetDefinitions/3be0e1be3d71ca"},"scope":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792","parameters":{"AllowedLocations1":{"value":["centraluseuap","eastus2euap","westcentralus","northeurope","centralindia","japaneast","koreacentral","uksouth","centrals","eastus","westus2","francecentral","southafricanorth","germanynorth","norwayeast","switzerlandnorth","ukenorthern","southeastasia","australiacentral2","australiaseast","canadacentral","westeurope","southindia","japanwest","koreasouth","ukwest","eastus2","southcentralus","brazilsouth","westindia","francesouth","southafricawest","germanywestcentral","norwaywest","switzerlandwest","brazilus","indiaoutsideus","indiacentral","uknorth","uksouth2","global"]},"description":"This initiative audits whether any Linux VMs or VMSS use password-only authentication for SSH. See https://aka.ms/gt/AzurePolicy for more details","metadata":{"createdBy":"1f75b9dd-4f1d-4e80-9521-321a8b1f5764","createdOn":"2020-05-12T23:48:29.541787Z","updatedBy":"1f75b9dd-4f1d-4e80-9521-321a8b1f5764","updatedOn":"2020-05-20T23:49:24.926644Z"},"enforcementMode":"Default"},"id":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyAssignments/6bff79d27acb9c88","type":"Microsoft.Authorization/policyAssignments","name":"6bff79d27acb9c88"},{"sku":{"name":"A0","tier":"Free"},"properties":{"displayName":"nrms-subnet-require-nsg_1.0","policyDefinitionId":"/providers/Microsoft.Authorization/policyAssignments/6bff79d27acb9c88","scope":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792","parameters":{"allowedLocations":{"value":["centraluseuap","eastus2euap","westcentralus","northeurope","centralindia","japaneseast","koreacentral","uksouth","uksouth2","centralus","eastus","westus2","francecentral","southeastasia","australiacentral2","australiaseast","canadacentral","westeurope","southindia","japanwest","koreasouth","ukwest","uknorth","eastus2","southcentralus","brazilsouth","westindia","francesouth","southafricawest","southafricanorth","southafricawest","global","brazilus","indiaoutsideus","indiacentral","uknorth","uksouth2","global"]},"effect":{"value":"Audit"}}}}},"description":"Batch Accounts must use a Pool Allocation Mode of User subscription on the Advanced tab to configure a VNet in the subscription. This enables the use of NSGs to secure the network traffic for the Batch Account. See https://aka.ms/netiso/vnetinjection for more details"},"metadata":{"createdBy":"1f75b9dd-4f1d-4e80-9521-321a8b1f5764","createdOn":"2019-04-01T22:35:46.766965Z","updatedBy":"1f75b9dd-4f1d-4e80-9521-321a8b1f5764","updatedOn":"2020-03-09T21:13:61570747Z"},"enforcementMode":"Default"},"id":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyAssignments/b8f1faa61cb41f92","type":"Microsoft.Authorization/policyAssignments","name":"b8f1faa61cb41f92"},{"sku":{"name":"A0","tier":"Free"},"properties":{"displayName":null,"policyDefinitionId":null,"scope":null,"parameters":null,"description":null}}}}}

initiative audits whether any Linux VMs or VMSS use password-only authentication for SSH. See https://aka.ms/gt/AzurePolicy for more details
C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.

Kubernetes must use the Advanced Networking option to configure the Kubernetes cluster to use a Virtual Network that is on the subscription of the user. This enables the use of NSGs to secure the network traffic for the Kubernetes container. See https://aka.ms/netiso/vnetinjection for more details.
Clusters must use the Custom configuration option to configure a VNet in the subscription. This enables the use of NSGs to secure the network traffic for the HDInsight cluster. See https://aka.ms/netiso/vnetinjection for more details.

Pools must be configured to use a VNet in the users subscription. This enables the use of NSGs to secure the network traffic for the Batch Account. See https://aka.ms/netiso/vnetinjection for more details.
Clusters must use the Custom configuration option to configure a VNet in the subscription. This enables the use of NSGs to secure the network traffic for the HDInsight cluster. See https://aka.ms/netiso/vnetinjection for more details.

Kubernetes must use the Advanced Networking option to configure the Kubernetes cluster to use a Virtual Network that is on the subscription of the user. This enables the use of NSGs to secure the network traffic for the Kubernetes container. See https://aka.ms/netiso/vnetinjection for more details.

Kubernetes must use the Advanced Networking option to configure the Kubernetes cluster to use a Virtual Network that is on the subscription of the user. This enables the use of NSGs to secure the network traffic for the Kubernetes container. See https://aka.ms/netiso/vnetinjection for more details.
C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.

<table>
<thead>
<tr>
<th>parameter</th>
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<tbody>
<tr>
<td><strong>ruleNo</strong></td>
<td>&quot;value&quot;: 102</td>
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| **info**                   | "value": "Created by Azure Core Security managed policy, rule can be deleted but do not change source ips, please see see aka.ms/cainsgpolicy"

The **destinationPortRanges** parameter is set to 

"["value": ["443"]]

**protocol** parameter is set to 

"Tcp"

**sourceType** parameter is set to 

"Service Tag"

**tagName** parameter is set to 

"SkipNRMSDatabricks"

**subscriptionExclusions** parameter is set to 

"value": []

**description** parameter is set to 

"All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details."

**sku** parameter is set to 

```
{"name":"A0","tier":"Free"}
```
All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.
64df-4532-a36a-b835b0494744","076cf91a-5eb9-4ee2-9bbf-647e8d818dd8","73992542-7eea-446a-a813-be9be977a1e9","800d0ed9-5ab9-43c2-b9bf-65bb3d740822","75cbd5cd-883c-4b21-a177-cdf7f4862c796","4f1f5ca9-03c7-4290-a534-d8125d5c9f0c","e1f7972d-096f-4309-8f3f-e95f6c6290be","b88ac08b-1838-4987-8510-5d098e4e029b","bbeb12ae-8826-49e2-b9c1-efb3c94c336e","7ce2068a-d812-424b-bb7f-594f45ac4081","ce7f6eb1-c0e1-4a8e-a841-3711b1bee26d","07fd3b0d-1350-46c2-91be-bf586e46878e","76d4f01-1bca-4af8-85f9-eea1e38f3e09","3985e311-9778-4909-aa73-7e23575cc5c5","7cf78357-6f66-49bc-97d7-5a3a51a7de2e","45fa46ce-77e-3723-4d9-1a4c8bf-f71fda5943a2],

"description": "All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details."


C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.

**Description:**

All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.

**Metadata:**

- **createdBy**: 1f75b9dd-4f1d-4e80-9521-321a8b1f5764
- **createdOn**: 2020-03-09T21:14:34.2006379Z
- **updatedBy**: 1f75b9dd-4f1d-4e80-9521-321a8b1f5764
- **updatedOn**: 2020-03-09T21:14:34.2006379Z
- **enforcementMode**: Default

**Identity:**

- **principalId**: f2e939bc-742a-427a-f0982c63e364
- **tenantId**: 72998b8f-86f1-41af-91ab-2d7cd01d4b74
- **type**: SystemAssigned

**Id:** /providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2f72/providers/Microsoft.Authorization/policyAssignments/NRMS-NSG-DINE-SR104-v013

- **name**: NRMS-NSG-DINE-SR104-v013
- **location**: japanwest
- **sku**: {"name":"A0","tier":"Free"}
- **properties**: {"displayName":"nrms-nsg-rule-105_1.3","policyDefinitionId":"/providers/Microsoft.Authorization/policyAssignments/NRMS-NSG-DINE-SR104-v013","scope":"/providers/Microsoft.Authorization/policyAssignments/NRMS-NSG-DINE-SR104-v013"}
- **parameters**: {"allowedLocations": ["centraluseuap","eastus2euap","westcentralus","northcentralus","westus","eastasia","australiaeast","australiacentral","japaneast","koreacentral","ukwest","eastus2","southcentralus","brazilsouth","westindia","francecentral","norwayeast","uaecentral","switzerlandwest"]
- **ruleNo**: 105
- **info**: DO NOT DELETE - Will result in ICM Sev 2 - Azure Core Security
C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.
All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.
C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.

Microsoft.Authorization/policyAssignments
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    "ruleNo":{"value":"108"},
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    },
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    },
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    "sourceValue":{
        "value": "Internet"
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    "actionValue":{
        "value": "Deny"
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    "direction":{
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    },
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        "value": "SkipNRMSHigh"
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All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details.

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C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.

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"All C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs for more details."
Open Source Used In SDWan 20.6.1 18303

b766155f2792/providers/Microsoft.Authorization/policySetDefinitions/c02faf167895f1d1","scope":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792","parameters":{"AllowedLocations1":{"value":["centraluseuap","eastus2euap","westcentralus","northcentralus","westus","eastasia","australiacentral","australiacentral","northeurope","centralindia","japaneast","koreacentral","uksouth","centralus","eastus","westus2","francecentral","southafricanorth","southeastasia","australiacentral2","australiasoutheast","canadacentral","westeurope","southindia","japanwest","koreasouth","ukwest","eastus2","southcentralus","brazilsouth","westindia","francesouth","southafricawest","global","brazilus","indiasouth","indianorth","germanywestcentral","norwayeast","norwaywest"]},"description":"Combinations of multiple policies to enable auto update of security pack and geneva agent","metadata":{"createdBy":"1f75b9dd-4f1d-4e80-9521-321a8b1f5764","createdOn":"2019-09-06T16:43:37.3818749Z","updatedBy":"1f75b9dd-4f1d-4e80-9521-321a8b1f5764","updatedOn":"2020-03-09T21:13:35.1192401Z"},"enforcementMode":"Default"},"identity":{"principalId":"8845dee4-c749-46a4-b8e8-35512cf066cd","tenantId":"72f988bf-86f1-41af-91ab-2d7cd011db47","type":"SystemAssigned"},"id":"/providers/Microsoft.Management/managementGroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyAssignments/SEC-AzSecPack-v031","type":"Microsoft.Authorization/policyAssignments","name":"SEC-AzSecPack-v031","location":"centralindia"}}

headers:
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- content-length: 131217
- content-type: application/json; charset=utf-8
- date: Fri, 05 Jun 2020 02:26:20 GMT
- expires: -1
- pragma: no-cache
- strict-transport-security: max-age=31536000; includeSubDomains
- transfer-encoding: chunked
- vary: Accept-Encoding
- x-content-type-options: nosniff

status:
- code: 200
- message: OK

request:
- body: null
- headers:
  - Accept: application/json
  - Accept-Encoding:
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This initiative audits whether any Linux VMs or VMSS use password-only authentication for SSH. See https://aka.ms/gt/AzurePolicy for more details.

- **nrms-batch-require-user-subscription-mode_1.0**
  - Description: Batch Accounts must use a Pool Allocation Mode of User subscription on the Advanced tab to configure a VNet in the subscription. This enables the use of NSGs to secure the network traffic for the Batch Account. See https://aka.ms/netiso/vnetinjection for more details.
  - Parameters:

- **nrms-subnet-require-nsg_1.0**
  - Description: Batch Accounts must use a Pool Allocation Mode of User subscription on the Advanced tab to configure a VNet in the subscription. This enables the use of NSGs to secure the network traffic for the Batch Account. See https://aka.ms/netiso/vnetinjection for more details.
C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.

Kubernetes must use the Advanced Networking option to configure the Kubernetes cluster to use a Virtual Network that is on the subscription of the user. This enables the use of NSGs to secure the network traffic for the Kubernetes container. See

C+AI Subscriptions must have a NSG on all VNets in the subscription. See https://aka.ms/netiso/nsgs for more details.
HDInsight Clusters must use the Custom configuration option to configure a VNet in the subscription. This enables the use of NSGs to secure the network traffic for the HDInsight cluster. See https://aka.ms/netiso/vnetinjection for more details.

Batch Pools must be configured to use a VNet in the users subscription. This enables the use of NSGs to secure the network traffic for the Batch Account. See https://aka.ms/netiso/vnetinjection for more details.
subnet_1.2","policyDefinitionId": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/1b0f9cd579f5f04a","scope": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792","parameters": {
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  },
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"subnet_1.3","policyDefinitionId": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792/providers/Microsoft.Authorization/policyDefinitions/cb9c916fd4b6c323","scope": "/providers/Microsoft.Management/managementgroups/48fed3a1-0814-4847-88ce-b766155f2792","parameters": {
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  "effect": {
    "value": "Audit"
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  "description": "Kubernetes must use the Advanced Networking option to configure the Kubernetes cluster to use a Virtual Network that is on the subscription of the user. This enables the use of NSGs to secure the network traffic for the Kubernetes container. See https://aka.ms/netiso/vnetinjection for more details"

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see
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C+AI Subscriptions must have pre-defined C+AI NSG rules. See https://aka.ms/netiso/nsgs
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south","southafricawest","germanywestcentral","norwaywest","uaecentral","switzerlandwest","global","brazilus","i
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by Azure Core Security managed policy, rule can be deleted but do not change
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29/32,52.148.118.116/32,52.224.187.226/32,40.91.115.44/32,40.91.114.244/32,40.91.95.146/32,40.91.93.196/32,40
.91.94.53/32,40.91.77.216/32,40.119.207.69/32,66.119.150.192/26,191.234.97.0/26,131.107.132.16/28,131.107.132
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Metadata-Version: 2.1
Name: azure-mgmt-resource
Version: 10.0.0
Summary: Microsoft Azure Resource Management Client Library for Python
Home-page: https://github.com/Azure/azure-sdk-for-python
Author: Microsoft Corporation
Author-email: azpysdkhelp@microsoft.com
License: MIT License
Description: # Microsoft Azure SDK for Python

This is the Microsoft Azure Resource Management Client Library.
This package has been tested with Python 2.7, 3.5, 3.6, 3.7 and 3.8.
For a more complete view of Azure libraries, see the [Github repo](https://github.com/Azure/azure-sdk-for-python/)

# Usage

For code examples, see [Resource Management](https://docs.microsoft.com/python/api/overview/azure/resources) on docs.microsoft.com.

# Provide Feedback
If you encounter any bugs or have suggestions, please file an issue in the [Issues](https://github.com/Azure/azure-sdk-for-python/issues) section of the project.

![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python%2Fazure-mgmt-resource%2FREADME.png)

# Release History

## 10.0.0 (2020-06-02)

**Features**

- Model AzurePowerShellScript has a new parameter storage_account_settings
- Model DeploymentOperationProperties has a new parameter provisioning_operation
- Model AzureCliScript has a new parameter storage_account_settings

**Breaking changes**

- Model AliasPathType no longer has parameter pattern

## 9.0.0 (2020-03-31)

**Features**

- Model Location has a new parameter metadata
- Model Location has a new parameter regional_display_name
- Model Deployment has a new parameter tags
- Model AliasPathType has a new parameter pattern
- Model ScopedDeployment has a new parameter tags
- Model DeploymentPropertiesExtended has a new parameter template_hash
- Model DeploymentPropertiesExtended has a new parameter validated_resources
- Model DeploymentPropertiesExtended has a new parameter error
- Model DeploymentPropertiesExtended has a new parameter output_resources
- Model DeploymentExtended has a new parameter tags
- Model Subscription has a new parameter tags
- Added operation FeaturesOperations.unregister
- Added operation TagsOperations.get_at_scope
- Added operation TagsOperations.update_at_scope
- Added operation TagsOperations.delete_at_scope
- Added operation TagsOperations.create_or_update_at_scope
- Added operation group DeploymentScriptsOperations

**Breaking changes**

- Model Location no longer has parameter latitude
- Model Location no longer has parameter longitude
- Model DeploymentPropertiesExtended no longer has parameter template
- Model TagsResource no longer has parameter tags
- Model TagsResource no longer has parameter location
- Operation DeploymentsOperations.validate_at_management_group_scope has a new signature
- Operation DeploymentsOperations.validate_at_subscription_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_subscription_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_tenant_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_scope has a new signature
- Operation DeploymentsOperations.validate has a new signature
- Operation DeploymentsOperations.create_or_update has a new signature
- Operation DeploymentsOperations.validate_at_scope has a new signature
- Operation DeploymentsOperations.validate_at_tenant_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_management_group_scope has a new signature
- Model TenantIdDescription has a new signature
- Removed operation TagsOperations.resource_get
- Removed operation TagsOperations.resource_delete
- Removed operation TagsOperations.resource_create
- Removed operation TagsOperations.resource_update

## 8.0.1 (2020-02-04)

**Bugfixes**

- Added missing API versions

## 8.0.0 (2020-01-24)

**Features**

- Added operation PolicyAssignmentsOperations.list_for_management_group

**Breaking changes**

- Operation DeploymentsOperations.create_or_update_at_tenant_scope has a new signature
- Operation DeploymentsOperations.validate_at_tenant_scope has a new signature
- Operation DeploymentsOperations.validate_at_management_group_scope has a new signature
- Operation DeploymentsOperations.create_or_update_at_management_group_scope has a new signature

## 7.0.0 (2019-12-07)

**Features**

- Model TenantIdDescription has a new parameter display_name
- Model TenantIdDescription has a new parameter domains
- Model Application has a new parameter ui_definition_uri
- Model ApplicationPatchable has a new parameter ui_definition_uri
**Breaking changes**

- Operation `DeploymentsOperations.create_or_update_at_tenant_scope` has a new signature
- Operation `DeploymentsOperations.create_or_update_at_management_group_scope` has a new signature
- Operation `DeploymentsOperations.validate_at_management_group_scope` has a new signature
- Operation `DeploymentsOperations.validate_at_tenant_scope` has a new signature
- Model `PolicySetDefinition` no longer has parameter `policy_definition_groups`
- Model `Subscription` no longer has parameter `managed_by_tenants`
- Model `DeploymentValidateResult` no longer has parameter `error`
- Removed operation `DeploymentsOperations.what_if`
- Removed operation `DeploymentsOperations.what_if_at_subscription_scope`
- Model `PolicyDefinitionReference` has a new signature

## 6.0.0 (2019-11-01)

**Features**

- Model `PolicySetDefinition` has a new parameter `policy_definition_groups`

**Breaking changes**

- Operation `DeploymentsOperations.validate_at_tenant_scope` has a new signature
- Operation `DeploymentsOperations.create_or_update_at_management_group_scope` has a new signature
- Operation `DeploymentsOperations.validate_at_management_group_scope` has a new signature
- Operation `DeploymentsOperations.create_or_update_at_tenant_scope` has a new signature
- Model `PolicyDefinitionReference` has a new signature

## 5.1.0 (2019-10-04)

**Features**
- Added operation DeploymentsOperations.what_if
- Added operation DeploymentsOperations.what_if_at_subscription_scope

## 5.0.0 (2019-09-22)

**Features**

- Model DeploymentValidateResult has a new parameter error
- Model Subscription has a new parameter managed_by_tenants

**Breaking changes**

- Model Application no longer has parameter ui_definition_uri
- Model ApplicationPatchable no longer has parameter ui_definition_uri
- Model TenantIdDescription no longer has parameter display_name
- Model TenantIdDescription no longer has parameter domains

## 4.0.0 (2019-09-03)

**Features**

- Model PolicyAssignment has a new parameter enforcement_mode
- Added operation DeploymentsOperations.get_at_scope
- Added operation DeploymentsOperations.list_at_tenant_scope
- Added operation DeploymentsOperations.get_at_tenant_scope
- Added operation DeploymentsOperations.list_at_tenant_scope
- Added operation DeploymentsOperations.create_or_update_at_tenant_scope
- Added operation DeploymentsOperations.list_at_tenant_scope
- Added operation DeploymentsOperations.delete_at_tenant_scope
- Added operation DeploymentsOperations.cancel_at_tenant_scope
- Added operation DeploymentsOperations.list_at_tenant_scope
- Added operation DeploymentsOperations.get_at_tenant_scope
- Added operation DeploymentsOperations.export_template_at_tenant_scope
- Added operation DeploymentsOperations.export_template_at_scope
- Added operation DeploymentsOperations.validate_at_tenant_scope
- Added operation DeploymentsOperations.validate_at_scope
- Added operation DeploymentsOperations.create_or_update_at_tenant_scope
- Added operation DeploymentsOperations.create_or_update_at_scope
- Added operation DeploymentsOperations.check_existence_at_tenant_scope
- Added operation DeploymentsOperations.check_existence_at_tenant_scope
- Added operation DeploymentsOperations.cancel_at_tenant_scope
- Added operation DeploymentsOperations.cancel_at_scope
- Added operation DeploymentsOperations.get_at_tenant_scope
- Added operation DeploymentsOperations.calculate_template_hash
- Added operation ProvidersOperations.list_at_tenant_scope
- Added operation ProvidersOperations.get_at_tenant_scope

**Breaking changes**

- Model DeploymentValidateResult no longer has parameter error
- Model ErrorResponse has a new signature

## 3.1.0 (2019-07-20)

**Features**

- Model TenantIdDescription has a new parameter domains
- Model TenantIdDescription has a new parameter display_name

## 3.0.0 (2019-06-13)

**Features**

- Model Provider has a new parameter registration_policy
- Model ProviderResourceType has a new parameter capabilities
- Model DeploymentOperationProperties has a new parameter duration
- Model DeploymentPropertiesExtended has a new parameter duration
- Added operation
  DeploymentOperations.get_at_management_group_scope
- Added operation
  DeploymentOperations.list_at_management_group_scope
- Added operation
  DeploymentsOperations.export_template_at_management_group_scope
- Added operation
  DeploymentsOperations.create_or_update_at_management_group_scope
- Added operation
  DeploymentsOperations.list_at_management_group_scope
- Added operation
  DeploymentsOperations.get_at_management_group_scope
- Added operation
  DeploymentsOperations.check_existence_at_management_group_scope
- Added operation
  DeploymentsOperations.cancel_at_management_group_scope
- Added operation
  DeploymentsOperations.delete_at_management_group_scope
- Added operation
  DeploymentsOperations.validate_at_management_group_scope
- Policy default API version is now 2018-05-01

**General Breaking changes**

This version uses a next-generation code generator that *might*
introduce breaking changes if you were importing from the v20xx_yy_zz API folders. In summary, some modules were incorrectly visible/importable and have been renamed. This fixed several issues caused by usage of classes that were not supposed to be used in the first place.

The following applies for all client and namespaces, we take ResourceManagementClient and "resources" as example:
- ResourceManagementClient cannot be imported from
  `azure.mgmt.resource.resources.v20xx_yy_zz.resource_management_client` anymore (import from `azure.mgmt.resource.resources.v20xx_yy_zz` works like before) - ResourceManagementClientConfiguration import has been moved from
  `azure.mgmt.resource.resources.v20xx_yy_zz.resource_management_client` to `azure.mgmt.resource.resources.v20xx_yy_zz` - A model `MyClass` from a "models" sub-module cannot be imported anymore using
  `azure.mgmt.resource.resources.v20xx_yy_zz.models.my_class` (import from `azure.mgmt.resource.resources.v20xx_yy_zz.models` works like before) - An operation class `MyClassOperations` from an `operations` sub-module cannot be imported anymore using
  `azure.mgmt.resource.resources.v20xx_yy_zz.operations.my_class_operations` (import from `azure.mgmt.resource.resources.v20xx_yy_zz.operations` works like before)

Last but not least, HTTP connection pooling is now enabled by default. You should always use a client as a context manager, or call close(), or use no more than one client per process.

### 2.2.0 (2019-05-23)

**Features on Subscriptions**

- tenant_id is now returned part of the subscription information

**Features on Locks**

- Add list_by_scope

### 2.1.0 (2019-02-01)

**Features on Policy**

- New API version for Policy 2018-05-01
- Model PolicyAssignment has a new parameter location
- Model PolicyAssignment has a new parameter identity

### 2.0.0 (2018-07-20)
**Features**

- Identity class has now a `user_assigned_identities` attribute
- Client class can be used as a context manager to keep the underlying HTTP session open for performance

### 2.0.0rc2 (2018-06-13)

**Features on Policy**

- New API version for Policy 2018-03-01. This a merge of 2017-06-01-preview and 2016-12-01 and has no external API breaking.

**Features on Resources**

- Resources new Api Version 2018-05-01
- Model Deployment has a new parameter location
- Model DeploymentExtended has a new parameter location
- Added operation `DeploymentsOperations.export_template_at_subscription_scope`
- Added operation `DeploymentsOperations.get_at_subscription_scope`
- Added operation `DeploymentsOperations.cancel_at_subscription_scope`
- Added operation `DeploymentsOperations.delete_at_subscription_scope`
- Added operation `DeploymentsOperations.create_or_update_at_subscription_scope`
- Added operation `DeploymentsOperations.validate_at_subscription_scope`
- Added operation `DeploymentsOperations.check_existence_at_subscription_scope`
- Added operation `DeploymentsOperations.list_at_subscription_scope`
- Added operation `DeploymentOperations.get_at_subscription_scope`
- Added operation `DeploymentOperations.list_at_subscription_scope`

**Breaking changes on Resources**

- Operation `DeploymentsOperations.create_or_update` lost its ignored "location" parameter.
- Operation `DeploymentsOperations.validate` lost its ignored "location" parameter.

**Common features**

- Client class can be used as a context manager to keep the underlying HTTP session open for performance

### 2.0.0rc1 (2018-04-23)
**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes.

- Model signatures now use only keyword-argument syntax. All positional arguments must be re-written as keyword-arguments. To keep auto-completion in most cases, models are now generated for Python 2 and Python 3. Python 3 uses the "*" syntax for keyword-only arguments.
- Enum types now use the "str" mixin (class AzureEnum(str, Enum)) to improve the behavior when unrecognized enum values are encountered. While this is not a breaking change, the distinctions are important, and are documented here: <https://docs.python.org/3/library/enum.html#others> At a glance:
  - "is" should not be used at all.
  - "format" will return the string value, where "%s" string formatting will return `NameOfEnum.stringvalue`. Format syntax should be prefered.
- New Long Running Operation:
  - Return type changes from `msrestazure.azure_operation.AzureOperationPoller` to `msrest.polling.LROPoller`. External API is the same.
  - Return type is now **always** a `msrest.polling.LROPoller`, regardless of the optional parameters used.
  - The behavior has changed when using `raw=True`. Instead of returning the initial call result as `ClientRawResponse`, without polling, now this returns an LROPoller. After polling, the final resource will be returned as a `ClientRawResponse`.
  - New `polling` parameter. The default behavior is `Polling=True` which will poll using ARM algorithm. When `Polling=False`, the response of the initial call will be returned without polling.
  - `polling` parameter accepts instances of subclasses of `msrest.polling.PollingMethod`.
  - `add_done_callback` will no longer raise if called after polling is finished, but will instead execute the callback right away.

**Features**

- Add new ApiVersion 2018-02-01 (new default):
  - Add on_error_deployment
  - Support MSI in generic ARM resources
  - All clients now support Azure profiles.
  - Add generic resources update (2017-05-10 and 2018-02-01)
  - Add version to Plan
**Bugfixes**

- Compatibility of the sdist with wheel 0.31.0

### 1.2.2 (2017-10-17)

**Bug fixes**

- Unicode strings are valid "subscription_id" in Python 2.7
- Added some deprecation warnings

### 1.2.1 (2017-10-06)

**Bugfixes**

- "Get" on unkown policy resources should raise and not return None

### 1.2.0 (2017-10-05)

**Features**

- Add validate_move_resources
- Add mode and metadata to PolicyDefinition
- Add policy_definitions.get_built_in
- Add policy_definitions.list_built_in
- Add policy_definitions.create_or_update_at_management_group
- Add policy_definitions.delete_at_management_group
- Add policy_definitions.get_at_management_group
- Add policy_definitions.list_by_management_group
- Add preview version of Policy 2017-06-01-preview:
  - Add policy_set_definitions operations group
  - Add policy set definitions to policy_assignments operations group
  - Add skus to policy assignment

**Bug fixes**

- Do not fail on 204 when deleting a policy assignment (2016-12-01)

**Breaking changes to preview clients**

- Major renaming into ManagedApplication client, and GA ApiVersion 2017-09-01

**Disclaimer**

- We removed the "filter" parameter of policy_definitions.list
method. However, we don't upgrade the major version of the package, since this parameter has no meaning for the RestAPI and there is no way any Python users would have been able to use it anyway.

## 1.1.0 (2017-05-15)

- Tag 1.1.0rc2 as stable (same content)

## 1.1.0rc2 (2017-05-12)

- Add Policy ApiVersion 2015-10-01-preview (AzureStack default)

## 1.1.0rc1 (2017-05-08)

- New default ApiVersion is now 2017-05-10. Breaking changes described in 1.0.0rc3 are now applied by default.

## 1.0.0rc3 (2017-05-04)

**Bug fixes**

- Subscriptions: Removed deprecated tenant ID
- Managed Applications: All list methods return an iterator

**New Resources ApiVersion 2017-05-10**

- Deploy resources to multiple resource groups from one template

- Some breaking changes are introduced compared to previous versions:
  - deployments.list has been renamed
  - deployments.list_by_resource_group
  - resource_groups.list_resources has been moved to
  - resources.list_by_resource_group
  - resource_groups.patch has been renamed to
  - resource_groups.update and now takes an instance of ResourceGroupPatchable (and not ResourceGroup).

The default is still 2016-09-01 in this package, waiting for the ApiVersion to be widely available.

## 1.0.0rc2 (2017-05-02)

- Add Managed Applications client (preview)

## 1.0.0rc1 (2017-04-11)

**Bug fixes**
- tag_count is now correctly an int and not a string
- deployment_properties is now required for all deployments operations as expected

**Breaking Changes**

- Locks moves to a new ApiVersion and brings several consistent naming refactoring and new methods

**Features**

To help customers with sovereign clouds (not general Azure), this version has official multi ApiVersion support for the following resource type:

- Locks: 2015-01-01 and 2016-09-01
- Policy: 2016-04-01 and 2016-12-01
- Resources: 2016-02-01 and 2016-09-01

The following resource types support one ApiVersion:

- Features: 2015-12-01
- Links: 2016-09-01
- Subscriptions: 2016-06-01

## 0.31.0 (2016-11-10)

**Breaking change**

- Resource.Links 'create_or_update' method has simpler parameters

## 0.30.2 (2016-10-20)

**Features**

- Add Resource.Links client

## 0.30.1 (2016-10-17)

**Bugfixes**

- Location is now correctly declared optional and not required.

## 0.30.0 (2016-10-04)

- Preview release. Based on API version 2016-09-01.
## 0.20.0 (2015-08-31)

- Initial preview release. Based on API version 2014-04-01-preview

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/ Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
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Description-Content-Type: text/markdown

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* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10.0.0-azure_mgmt_resource.egg-info/PKG-INFO
* /opt/cola/permits/1155895670_1619081336.61/0/azure-mgmt-resource-10.0.0-azure_mgmt_resource.egg-info/PKG-INFO

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1.1794 cglib 3.3.0

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org.jboss.logmanager.LogManager

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org.jboss.logmanager.jbossLoggerFinder

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Anthony Green <green@redhat.com>
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1.1806 python-pyopenssl 17.5.0

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1.1807 scala 2.12.10

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```scala
not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

val x: ((Int, Int) => Int) = (((a, b)) => a)

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```
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Automated Testing Framework

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clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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-->

<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>
  <xsl:variable name="isc.copyright.text">
    This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:variable>
</xsl:stylesheet>
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1.1830 ifupdown 0.8.35

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* /opt/cola/permits/1141637011_1615091335_54/0/spring-orm-5-1-17-release-sources-
  jar/org/springframework/orm/hibernate5/LocalSessionFactoryBean.java
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  jar/org/springframework/orm/jpa/vendor/HibernateJpaSessionFactoryBean.java
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  jar/org/springframework/orm/hibernate5/support/OpenSessionInterceptor.java
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  jar/org/springframework/orm/hibernate5/HibernateSystemException.java
* /opt/cola/permits/1141637011_1615091335.54/0/spring-orm-5-1-17-release-sources-
  jar/org/springframework/orm/hibernate5/support/AsyncRequestInterceptor.java
* /opt/cola/permits/1141637011_1615091335.54/0/spring-orm-5-1-17-release-sources-
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/**
* Create a transactional EntityManager proxy for the given EntityManagerFactory.
* @param emf the EntityManagerFactory to obtain EntityManagers from as needed
* @param properties the properties to be passed into the
* {code createEntityManager} call (may be {code null})
* @param entityManagerInterfaces the interfaces to be implemented by the
* EntityManager. Allows the addition or specification of proprietary interfaces.
* @return a shareable transactional EntityManager proxy
*/

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1.1842 libxext 1.3.3-1
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-- Wolfgang Denk

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To make this easier, such license headers in the source files will be replaced with a single line reference to Unique License Identifiers as defined by the Linux Foundation's SPDX project [1]. For example, in a source file the full "GPL v2.0 or later" header text will be replaced by a single line:

SPDX-License-Identifier: GPL-2.0+

We use the SPDX Unique License Identifiers here; these are available at [2].


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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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   This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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<signature of Ty Coon>, 1 April 1990
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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1.1864 python-urlgrabber 3.10 10.el7

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1.1867 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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jloup@gzip.org         madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

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1.1868 xmltooling 1.4.4-CISCO

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# Usage

For code examples, see [Storage Management](https://docs.microsoft.com/python/api/overview/azure/storage) on docs.microsoft.com.

# Provide Feedback

If you encounter any bugs or have suggestions, please file an issue in the [Issues](https://github.com/Azure/azure-sdk-for-python/issues) section of the project.

![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python%2Fazure-mgmt-storage%2FREADME.png)

# Release History

### 10.0.0 (2020-05-07)

**Features**

- Model ManagementPolicyFilter has a new parameter blob_index_match
- Model FileShareItem has a new parameter access_tier_status
- Model FileShareItem has a new parameter share_usage_bytes
- Model FileShareItem has a new parameter deleted
- Model FileShareItem has a new parameter deleted_time
- Model FileShareItem has a new parameter access_tier
- Model FileShareItem has a new parameter version
- Model FileShareItem has a new parameter root_squash
- Model FileShareItem has a new parameter enabled_protocols
- Model FileShareItem has a new parameter access_tier_change_time
- Model FileShareItem has a new parameter remaining_retention_days
- Model RestorePolicyProperties has a new parameter last_enabled_time
- Model FileShare has a new parameter access_tier_status
- Model FileShare has a new parameter share_usage_bytes
- Model FileShare has a new parameter deleted
- Model FileShare has a new parameter deleted_time
- Model FileShare has a new parameter access_tier
- Model FileShare has a new parameter version
- Model FileShare has a new parameter root_squash
- Model FileShare has a new parameter enabled_protocols
- Model FileShare has a new parameter access_tier_change_time
- Model FileShare has a new parameter remaining_retention_days
- Added operation FileSharesOperations.restore
- Added operation PrivateEndpointConnectionsOperations.list
- Added operation group ObjectReplicationPoliciesOperations

**Breaking changes**

- Operation FileSharesOperations.update has a new signature
- Operation FileSharesOperations.create has a new signature
- Operation FileSharesOperations.get has a new signature
- Operation FileSharesOperations.list has a new signature
- Operation FileSharesOperations.update has a new signature
- Operation FileSharesOperations.create has a new signature

## 9.0.0 (2020-03-27)

**Features**

- Model BlobContainer has a new parameter default_encryption_scope
- Model BlobContainer has a new parameter deny_encryption_scope_override
- Model ListContainerItem has a new parameter default_encryption_scope
- Model ListContainerItem has a new parameter deny_encryption_scope_override
- Model KeyVaultProperties has a new parameter last_key_rotation_timestamp
- Model KeyVaultProperties has a new parameter current_versioned_key_identifier

**Breaking changes**

- Operation BlobContainersOperations.update has a new signature
- Operation BlobContainersOperations.create has a new signature
- Operation BlobContainersOperations.update has a new signature
- Operation BlobContainersOperations.create has a new signature

## 8.0.0 (2020-02-27)

**Features**

- Model ImmutabilityPolicyProperties has a new parameter allow_protected_append_writes
- Model BlobServiceProperties has a new parameter container_delete_retention_policy
- Model BlobServiceProperties has a new parameter is_versioning_enabled
- Model ImmutabilityPolicy has a new parameter allow_protected_append_writes
- Added operation group EncryptionScopesOperations

**Breaking changes**

- Operation BlobContainersOperations.create_or_update_immutability_policy has a new signature
- Operation BlobContainersOperations.extend_immutability_policy has a new signature
- Operation BlobContainersOperations.create_or_update_immutability_policy has a new signature

## 7.2.0 (2020-02-10)
**Features**

- Model BlobServiceProperties has a new parameter `restore_policy`
- Model StorageAccount has a new parameter `blob_restore_status`
- Added operation `StorageAccountsOperations.restore_blob_ranges`

## 7.1.0 (2020-01-09)

**Features**

- Model EncryptionService has a new parameter `key_type`

## 7.0.0 (2019-12-04)

**Features**

- Model StorageAccountCreateParameters has a new parameter `routing_preference`
- Model BlobServiceProperties has a new parameter `sku`
- Model FileServiceProperties has a new parameter `share_delete_retention_policy`
- Model FileServiceProperties has a new parameter `sku`
- Model StorageAccount has a new parameter `routing_preference`
- Model StorageAccountUpdateParameters has a new parameter `routing_preference`
- Model Endpoints has a new parameter `internet_endpoints`
- Model Endpoints has a new parameter `microsoft_endpoints`

**Breaking changes**

- Operation `FileServicesOperations.set_service_properties` has a new signature
- Model `Sku` has a new signature

## 6.0.0 (2019-10-25)

**Features**

- Model StorageAccount has a new parameter `private_endpoint_connections`
- Added operation group `PrivateEndpointConnectionsOperations`
- Added operation group `PrivateLinkResourcesOperations`

**Breaking changes**

- Operation `FileSharesOperations.list` has a new signature
- Operation `BlobContainersOperations.list` has a new signature

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Open Source Used In SDWan 20.6.1 18879
## 5.0.0 (2019-10-21)

**Features**

- Model AzureFilesIdentityBasedAuthentication has a new parameter `active_directory_properties`

**Breaking changes**

- Operation StorageAccountsOperations.list_keys has a new signature

## 4.2.0 (2019-10-07)

**Features**

- Model StorageAccountCreateParameters has a new parameter `large_file_shares_state`
- Model StorageAccountUpdateParameters has a new parameter `large_file_shares_state`
- Model StorageAccount has a new parameter `large_file_shares_state`

## 4.1.0 (2019-09-27)

**Features**

- Model BlobServiceProperties has a new parameter `change_feed`
- Added operation BlobServicesOperations.list
- Added operation group FileServicesOperations
- Added operation group FileSharesOperations

## 4.0.0 (2019-06-12)

**Features**

- Model StorageAccount has a new parameter `azure_files_identity_based_authentication`
- Model StorageAccountCreateParameters has a new parameter `azure_files_identity_based_authentication`
- Model StorageAccountUpdateParameters has a new parameter `azure_files_identity_based_authentication`

**Breaking changes**

- Model StorageAccount no longer has parameter `enable_azure_files_aad_integration`
- Model StorageAccountCreateParameters no longer has parameter `enable_azure_files_aad_integration`
**Breaking changes**

- Model StorageAccountUpdateParameters no longer has parameter enable_azure_files_aad_integration

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes while using imports. In summary, some modules were incorrectly visible/importable and have been renamed. This fixed several issues caused by usage of classes that were not supposed to be used in the first place.

- StorageManagementClient cannot be imported from `azure.mgmt.storage.storage_management_client` anymore (import from `azure.mgmt.storage` works like before)
- StorageManagementClientConfiguration import has been moved from `azure.mgmt.storage.network_management_client` to `azure.mgmt.storage`
- StorageManagementClient cannot be imported from `azure.mgmt.storage.v20xx_yy_zz.network_management_client` anymore (import from `azure.mgmt.storage.v20xx_yy_zz` works like before)
- StorageManagementClientConfiguration import has been moved from `azure.mgmt.storage.v20xx_yy_zz.network_management_client` to `azure.mgmt.storage.v20xx_yy_zz`
- A model `MyClass` from a "models" sub-module cannot be imported anymore using `azure.mgmt.storage.v20xx_yy_zz.models.my_class` (import from `azure.mgmt.storage.v20xx_yy_zz.models` works like before)
- An operation class `MyClassOperations` from an `operations` sub-module cannot be imported anymore using `azure.mgmt.storage.v20xx_yy_zz.operations.my_class_operations` (import from `azure.mgmt.storage.v20xx_yy_zz.operations` works like before)

Last but not least, HTTP connection pooling is now enabled by default. You should always use a client as a context manager, or call close(), or use no more than one storage mgmt client per process.

## 3.3.0 (2019-04-22)

**Features**

- Model BlobServiceProperties has a new parameter automatic_snapshot_policy_enabled
- Added operation StorageAccountsOperations.revoke_user_delegation_keys
- Added operation BlobContainerOperations.lease

## 3.2.0 (2019-04-10)

**Features**

- Added operation BlobContainersOperations.lease for API versions 2018_02_01 and later

## 3.1.1 (2019-01-02)

**Bugfixes**

- Fix #4013 - "use_sub_domain" should be "use_sub_domain_name"

## 3.1.0 (2018-11-15)

**Features**

- Model StorageAccount has a new parameter geo_replication_stats
- Model StorageAccount has a new parameter failover_in_progress
- Added operation StorageAccountsOperations.failover
- Added operation group BlobServicesOperations
- Operation StorageAccountsOperations.get_properties now support expand parameter

## 3.0.0 (2018-09-27)

**Features**

- Model StorageAccount has a new parameter enable_azure_files_aad_integration
- Model StorageAccountCreateParameters has a new parameter enable_azure_files_aad_integration
- Model StorageAccountUpdateParameters has a new parameter enable_azure_files_aad_integration
- Added operation group ManagementPoliciesOperations. This is considered preview and breaking changes might happen.

**Breaking changes**

- "usage" has been renamed "usages", and the "list" operation has been replaced by "list_by_location". Ability to make usage requests locally is not available anymore.

**Note**

- azure-mgmt-nspkg is not installed anymore on Python 3 (PEP420-based
## 2.0.0 (2018-08-01)

**Bugfixes**

- Set the signed resource as optional instead of required

## 2.0.0rc4 (2018-06-26)

**Features (2018-02-01/2018-03-01-preview)**

Support HDFS feature and web endpoint in Account properties

- Model StorageAccountCreateParameters has a new parameter `is_hns_enabled`
- Model Endpoints has a new parameter `web`
- Model Endpoints has a new parameter `dfs`
- Model StorageAccount has a new parameter `is_hns_enabled`

## 2.0.0rc3 (2018-05-30)

**Features**

- Add preview version of management policy (API 2018-03-01-preview only). This is considered preview and breaking changes might happen if you opt in for that API Version.

**Bugfixes**

- Correct azure-common dependency

## 2.0.0rc2 (2018-05-16)

**Bugfixes**

- Fix default "models" import to 2018-02-01

## 2.0.0rc1 (2018-05-11)

**Features**

- Add blob containers operations, immutability policy
- Add usage.list_by_location
- Client now supports Azure profiles.
- Client class can be used as a context manager to keep the underlying HTTP session open for performance
**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes.

- Model signatures now use only keyword-argument syntax. All positional arguments must be re-written as keyword-arguments. To keep auto-completion in most cases, models are now generated for Python 2 and Python 3. Python 3 uses the "*" syntax for keyword-only arguments.
- Enum types now use the "str" mixin (class AzureEnum(str, Enum)) to improve the behavior when unrecognized enum values are encountered. While this is not a breaking change, the distinctions are important, and are documented here: <https://docs.python.org/3/library/enum.html#others> At a glance:
  - "is" should not be used at all.
  - "format" will return the string value, where "%s" string formatting will return `NameOfEnum.stringValue`. Format syntax should be prefered.
- New Long Running Operation:
  - Return type changes from `msrestazure.azure_operation.AzureOperationPoller` to `msrest.polling.LROPoller`. External API is the same.
  - Return type is now **always** a `msrest.polling.LROPoller`, regardless of the optional parameters used.
  - The behavior has changed when using `raw=True`. Instead of returning the initial call result as `ClientRawResponse`, without polling, now this returns an LROPoller. After polling, the final resource will be returned as a `ClientRawResponse`.
  - New `polling` parameter. The default behavior is `Polling=True` which will poll using ARM algorithm. When `Polling=False`, the response of the initial call will be returned without polling.
  - `polling` parameter accepts instances of subclasses of `msrest.polling.PollingMethod`.
  - `add_done_callback` will no longer raise if called after polling is finished, but will instead execute the callback right away.

## 1.5.0 (2017-12-12)

**Features**

- Add StorageV2 as valid kind
- Add official support for API version 2017-10-01

## 1.4.0 (2017-09-26)
**Bug fixes**

- Add skus operations group to the generic client

**Features**

- Add official support for API version 2016-01-01

### 1.3.0 (2017-09-08)

**Features**

- Adds list_skus operation (2017-06-01)

**Breaking changes**

- Rename the preview attribute "network_acls" to "network_rule_set"

### 1.2.1 (2017-08-14)

**Bugfixes**

- Remove "tests" packaged by mistake (#1365)

### 1.2.0 (2017-07-19)

**Features**

- Api version 2017-06-01 is now the default
- This API version adds Network ACLs objects (2017-06-01 as preview)

### 1.1.0 (2017-06-28)

- Added support for https traffic only (2016-12-01)

### 1.0.0 (2017-05-15)

- Tag 1.0.0rc1 as stable (same content)

### 1.0.0rc1 (2017-04-11)

**Features**

To help customers with sovereign clouds (not general Azure), this version has official multi ApiVersion support for 2015-06-15 and 2016-12-01

### 0.31.0 (2017-01-19)
- New `list_account_sas` operation
- New `list_service_sas` operation
- Name syntax are now checked before RestAPI call, not the server (exception changed)

Based on API version 2016-12-01.

## 0.30.0 (2016-11-14)

- Initial release. Based on API version 2016-01-01 Note that this is the same content as 0.30.0rc6, committed as 0.30.0.

## 0.20.0 (2015-08-31)


Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.1891 angular-sanitize 1.3.4

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# packaged angular-sanitize

This repo is for distribution on `npm` and `bower`. The source for this module is in the [main AngularJS repo](https://github.com/angular/angular.js/tree/master/src/ngSanitize). Please file issues and pull requests against that repo.

## Install

You can install this package either with `npm` or with `bower`.

### npm

```shell
npm install angular-sanitize
```

Add a `<script>` to your `index.html`:

```html
<script src="/node_modules/angular-sanitize/angular-sanitize.js"></script>
```

Then add `ngSanitize` as a dependency for your app:

```javascript
angular.module('myApp', ['ngSanitize']);
```

Note that this package is not in CommonJS format, so doing `require('angular-sanitize')` will return `undefined`.

### bower

```shell
bower install angular-sanitize
```

Add a `<script>` to your `index.html`:

```html
<script src="/bower_components/angular-sanitize/angular-sanitize.js"></script>
```
Then add `ngSanitize` as a dependency for your app:

```javascript
angular.module('myApp', ['ngSanitize']);
```

## Documentation

Documentation is available on the [AngularJS docs site](http://docs.angularjs.org/api/ngSanitize).

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**1.1892 httpasyncclient 4.1.2**

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man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
man/strnstr.3
man/unvis.3
man/vis.3
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man/strlcpy.3
man/strtonum.3
src/arc4random.c
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
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man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
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man/getbsize.3
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1.1895 lxml 3.4.4
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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- web-app_3_0.xsd
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f1c9645d8c14e2e4c7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2c9 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d000d1d1c0e5ee45d26 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device  Boot  Start   End Sectors Size Id  Type
<removed> 1  2048  4095  2048  1M  83  Linux

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfe51a8a045db232418dd73f8 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device  Boot  Start   End Sectors Size Id  Type
<removed> 1  2048  4095  2048  1M  83  Linux
<removed> 2  4096  20479 16384  8M a5 FreeBSD
Create default BSD
2e1cee529eb59c9341afe0f0443f196a bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
c      4096 20479   16384    8M unused       0     0   0
d         0 16064   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

<table>
<thead>
<tr>
<th>Slice Start</th>
<th>End Sectors</th>
<th>Size Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>4.2BSD</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

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1.1902 ncurses 6.1+20180630

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Current Maintainer: [Max Bruckner](https://github.com/FSMaxB)

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* [Alper Akcan](https://github.com/alperakcan)
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src/base/md5.c
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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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```python
import io, sys
from setuptools import setup

def main():

```
python_version = sys.version_info[:2]
if python_version < (2,7):
    raise SystemExit("Sorry, Python 2.7 or newer required")

package_data = {}
exec(open('idna/package_data.py').read(), package_data)

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: 3.7',
        'Programming Language :: Python :: 3.8',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()
1.1914 parboiled-scala 1.2.0

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* /opt/cola/permits/1085431929_1612764909.5/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled-scala/parserunners/BasicParseRunner.scala
* /opt/cola/permits/1085431929_1612764909.5/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled-scala/parserunners/TracingParseRunner.scala
* /opt/cola/permits/1085431929_1612764909.5/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled-scala/rules/CharRule.scala
* /opt/cola/permits/1085431929_1612764909.5/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled-scala/WithContextAction.scala
* /opt/cola/permits/1085431929_1612764909.5/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled-scala/Parser.scala
* /opt/cola/permits/1085431929_1612764909.5/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled-scala/rules/CharRule.scala
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* /opt/cola/permits/1085431929_1612764909.5/0/parboiled-scala-2-12-1-2-0-sources-jar/org/parboiled-scala/Rule0.scala
*/
1.1915 javascript-detect-element-resize 0.5.3

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1.1916 jersey 2.27

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    2003, 2004, 2005, 2008 Theodore Ts'o <tytso@mit.edu>
  1994 Kevin E. Martin (martin@cs.unc.edu)
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  1994,1996 Alessandro Rubini (rubini@ipvvis.unipv.it)
  1994-2005 Jeff Tranter (tranter@pobox.com)
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   2009-2010 Andreas Dilger <adilger@sun.com>
   2010 Andrew Nayenko <resver@gmail.com>
   2010 Jeroen Oortwijn <oortwijn@gmail.com>
   2010 Jiro SEKIBA <jir@unicus.jp>
   2011 Philipp Marek <philipp.marek@linbit.com>
   2012 Milan Broz <mbroz@redhat.com>
   2013 Alejandro Martinez Ruiz <alex@nowcomputing.com>
   2013 Eric Sandeen <sandeen@redhat.com>
   2013 Rolf Fokkens <rolf@fokkens.nl>
   2013 Zeeshan Ali (Khattak) <zeeshanak@gnome.org>
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
-------------------
Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8ddf51a88a045db233418dd73fbe bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD
-------------------
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start End Sectors Size Type Fsize Bsize Cpg
c 4096 20479 16384 8M unused 0 0 0
d 0 16064 16065 7.9M unused 0 0 0
Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Welcome to fdisk <removed>. Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a  4096  6144   2049    1M 4.2BSD       0     0   0
c  4096  20479  16384    8M unused       0     0   0
d   0  16064  16065 7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0  unused    5  4.1BSD  9  4.4LFS   d  boot
1  swap      6  Eighth Edition  a  unknown   e  ADOS
Command (m for help):
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1.1931 zlib 1.0.1
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Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@google.com>
Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kostya Serebryany <kcc@google.com>
Lev Makhlis
Manuel Klimek <klimek@google.com>
Mario Tanev <radix@google.com>
Mark Paskin
Markus Heule <markus.heule@gmail.com>
Matthew Simmons <simmonmt@acm.org>
Mike Bland <mbland@google.com>
Neal Norwitz <nnorwitz@gmail.com>
Nermin Ozkiranartli <nermin@google.com>
Owen Carlsen <ocarlsen@google.com>
Paneendra Ba <paneendra@google.com>
Paul Menage <menage@google.com>
Piotr Kaminski <piotrk@google.com>
Russ Rufer <russ@pentad.com>
Sverre Sundsdal <sundsdal@gmail.com>
Takeshi Yoshino <tyoshino@google.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Wolfgang Klier <wklier@google.com>
Zhanyong Wan <wan@google.com>

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limitations under the License.
This file contains a list of people who have made large contributions
to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose Feinstein <ambrose@google.com>
Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>
  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
  * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@gmail.com>
Ji Sigursson <joi@gmail.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@gmail.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotr@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@gmail.com>
1.1935 leaflet-polylinedecorator 0.7.2

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data 
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1.1948 jackson-dataformat-yaml 2.8.11

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1.1949 yum-utils 1.1.31 53.el7

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1.1953 elasticsearch-core 6.8.10

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1.1954 exec-maven-plugin 1.3.2

1.1955 neo4j-storage-engine-api 4.1.7
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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support
* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields
* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@ pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbgrn <https://dbgrn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graftacolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes
* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ```HTTPResponse.stream()```
  * Bugfix for ```ConnectionPool.urlopen(release_conn=False)```
  * Creation of ```HTTPConnectionPool.ResponseCls```

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter
* John Vandenberg <jayvdb@gmail.com>
+ Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
+ Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
+ Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
+ Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
+ Various character-encoding fixes/tweaks
+ Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
+ Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
+ Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
+ History list to Retry object.
+ HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
+ Ensure timeouts are not booleans and greater than zero.
+ Fixed infinite loop in `stream` when amt=None.
+ Added length_remaining to determine remaining data to be read.
+ Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
+ Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
+ Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
+ Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
+ Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
+ Stop buffering entire deflate-encoded responses.
* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ```util.selectors._fileobj_to_fd``` to accept ```long```
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ```contrib.securetransport```

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ```HTTPResponse.geturl``` method to provide ```urllib2.urlopen().geturl()``` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.1965 asm-debug-all 5.1

1.1966 maven-dependency-plugin 2.8

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xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
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*/

/*!
 * 
 * Notice to programmers: Do not use this code as an example of how to use the ISC library to perform DNS lookups. Dig and Host both operate on the request level, since they allow fine-tuning of output and are intended as debugging tools. As a result, they perform many of the functions which could be better handled using the dns_resolver functions in most applications.
 */

#include <config.h>
#include <inttypes.h>
#include <stdbool.h>
#include <stdlib.h>
#include <unistd.h>
#include <string.h>
#include <limits.h>
#include <errno.h>
#ifdef HAVE_LOCALE_H
#include <locale.h>
#endif

#ifdef WITH_IDN_SUPPORT
#ifdef WITH_IDNKIT
#include <idn/result.h>
#include <idn/log.h>
#include <idn/resconf.h>
#include <idn/api.h>
#endif
#ifdef WITH_LIBIDN2
#include <idn2.h>
#endif
#endif /* WITH_IDN_SUPPORT */

#include <dns/byaddr.h>
#ifdef DIG_SIGCHASE
#include <dns/callbacks.h>
#endif
#include <dns/dnssec.h>
#include <dns/ds.h>
#include <dns/master.h>
#include <dns/nsec.h>
#include <isc/random.h>
#include <ctype.h>
#endif
#include <dns/fixedname.h>
#include <dns/log.h>
#include <dns/message.h>
#include <dns/name.h>
#include <dns/rcode.h>
#include <dns/rdata.h>
#include <dns/rdataclass.h>
#include <dns/rdatalist.h>
#include <dns/rdataset.h>
#include <dns/rdatatype.h>
#include <dns/result.h>
#include <dns/tsig.h>

#include <dst/dst.h>
#include <dst/result.h>

#include <isc/app.h>
#include <isc/base64.h>
#include <isc/entropy.h>
#include <isc/file.h>
#include <isc/hex.h>
#include <isc/lang.h>
#include <isc/log.h>
#include <isc/netaddr.h>
#include <isc/netdb.h>
#include <isc/parseint.h>
#include <isc/print.h>
#include <isc/random.h>
#include <isc/result.h>
#include <isc/safe.h>
#include <isc/serial.h>
#include <isc/sockaddr.h>
#include <isc/string.h>
#include <isc/task.h>
#include <isc/timer.h>
#include <isc/types.h>
#include <isc/util.h>

#include <pk11/site.h>
#include <isccfg/namedconf.h>

#include <lwres/lwres.h>
#include <lwres/net.h>

#include <bind9/getaddresses.h>

#include <dig/dig.h>

#ifdef PKCS11CRYPTO
#include <pk11/result.h>
#endif

#if ! defined(NS_INADDRSZ)
#define NS_INADDRSZ	4
#endif

#if ! defined(NS_IN6ADDRSZ)
#define NS_IN6ADDRSZ	16
#endif

static lwres_context_t *lwctx = NULL;
static lwres_conf_t *lwconf;

dig_lookuplist_t lookup_list;
dig_serverlist_t server_list;
dig_searchlistlist_t search_list;

bool
check_ra = false,
have_ipv4 = false,
have_ipv6 = false,
specified_source = false,
free_now = false,
cancel_now = false,
usesearch = false,
showsearch = false,
qr = false,
is_dst_up = false,
keep_open = false,
verbose = false;
in_port_t port = 53;
unsigned int timeout = 0;
unsigned int extrabytes;
isc_mem_t *mctx = NULL;
isc_log_t *lctx = NULL;
isc_taskmgr_t *taskmgr = NULL;
isc_task_t *global_task = NULL;
isc_timermgr_t *timermgr = NULL;
isc_socketmgr_t *socketmgr = NULL;
isc_sockaddr_t bind_address;
isc_sockaddr_t bind_any;
int sendcount = 0;
int recvcount = 0;
int sockcount = 0;
int ndots = -1;
int tries = 3;
int lookup_counter = 0;

static char servercookie[256];

#ifdef WITH_IDN_SUPPORT
static void idn_initialize(void);
static isc_result_t idn_locale_to_ace(const char *from,
    char *to,
    size_t tolen);
#endif /* WITH_IDN_SUPPORT */

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t idn_ace_to_locale(const char *from,
    char *to,
    size_t tolen);  
static isc_result_t output_filter(isc_buffer_t *buffer,
    unsigned int used_org,
    bool absolute);
#define MAXDLEN 256
#endif /* WITH_IDN_OUT_SUPPORT */

#ifdef WITH_IDNKIT
int idnoptions = 0;
#endif
#endif /* WITH_IDN_OUT_SUPPORT */

isc_socket_t *keep = NULL;
isc_sockaddr_t keepaddr;

/*%
 * Exit Codes:
 * *
 *\li0 Everything went well, including things like NXDOMAIN
 *\li1 Usage error
 *\li7 Got too many RR's or Names
 *\li8 Couldn't open batch file
 *\li9 No reply from server
 *\li10 Internal error
 */
int exitcode = 0;
int fatalexit = 0;
char keynametext[MXNAME];
char keyfile[MXNAME] = "";
char keysecret[MXNAME] = "";
unsigned char cookie_secret[33];
unsigned char cookie[8];
dns_name_t *hmacname = NULL;
unsigned int digestbits = 0;
isc_buffer_t *namebuf = NULL;
dns_tsigkey_t *tsigkey = NULL;
bool validated = true;
isc_entropy_t *entp = NULL;
isc_mempool_t *commctx = NULL;
bool debugging = false;
bool debugtiming = false;
bool memdebugging = false;
char *progname = NULL;
isc_mutex_t lookup_lock;
dig_lookup_t *current_lookup = NULL;
#endif DIG_SIGCHASE

isc_result_t get_trusted_key(void);
dns_rdataset_t * sigchase_scanname(dns_rdatatype_t type,
    dns_rdatatype_t covers,
    bool *lookedup,
    dns_name_t *rdata_name);
dns_rdataset_t * chase_scanname_section(dns_message_t *msg,
    dns_name_t *name,
    dns_rdatatype_t type,
    dns_rdatatype_t covers,
    int section);
isc_result_t advanced_rrsearch(dns_rdataset_t **rdataset,
    dns_name_t *name,
    dns_rdatatype_t type,
    dns_rdatatype_t covers,
    bool *lookedup);
isc_result_t sigchase_verify_sig_key(dns_name_t *name,
    dns_rdataset_t *rdataset,
    dst_key_t* dnsseckey,
    dns_rdataset_t *sigrdataset);
isc_result_t sigchase_verify_sig(dns_name_t *name,
    dns_rdataset_t *rdataset,
    dns_rdataset_t *keyrdataset,
    dns_rdataset_t *sigrdataset);
isc_result_t sigchase_verify_ds(dns_name_t *name,
    dns_rdataset_t *keyrdataset,
    dns_rdataset_t *dsrdataset);
void sigchase(dns_message_t *msg);
void print_rdata(dns_rdata_t *rdata, isc_mem_t *mctx);
void print_rdataset(dns_name_t *name, dns_rdataset_t *rdataset);
void dup_name(dns_name_t *source, dns_name_t *target);
void free_name(dns_name_t *name);
void dump_database(void);
void dump_database_section(dns_message_t *msg, int section);
dns_rdataset_t * search_type(dns_name_t *name, dns_rdatatype_t type,
                         dns_rdatatype_t *typecovers);
isc_result_t contains_trusted_key(dns_name_t *name,
                         dns_rdataset_t *rdataset,
                         dns_rdataset_t *sigrdataset);
void print_type(dns_rdatatype_t type);
isc_result_t prove_nx_domain(dns_message_t * msg,
                         dns_name_t * name,
                         dns_rdataset_t * rdata_name,
                         dns_rdataset_t ** rdataset,
                         dns_rdataset_t ** sigrdataset);
isc_result_t prove_nx_type(dns_message_t * msg, dns_name_t *name,
                         dns_rdataset_t *nsec,
                         dns_rdataclass_t rdclass,
                         dns_rdatatype_t type,
                         dns_name_t * rdata_name,
                         dns_rdataset_t ** rdataset,
                         dns_rdataset_t ** sigrdataset);
isc_result_t prove_nx(dns_message_t * msg, dns_name_t * name,
                         dns_rdataclass_t rdclass,
                         dns_rdatatype_t type,
                         dns_name_t * rdata_name,
                         dns_rdataset_t ** rdataset,
                         dns_rdataset_t ** sigrdataset);
static void nameFromString(const char *str, dns_name_t *p_ret);
int inf_name(dns_name_t * name1, dns_name_t * name2);
isc_result_t removetmpkey(const char *file);
void clean_trustedkey(void);
isc_result_t insert_trustedkey(void *arg, dns_name_t *name,
                         dns_rdataset_t *rdataset);
#if DIG_SIGCHASE_BU
isc_result_t getneededrr(dns_message_t *msg);
void sigchase_bottom_up(dns_message_t *msg);
void sigchase_bu(dns_message_t *msg);
#endif
#if DIG_SIGCHASE_TD
isc_result_t initialization(dns_name_t *name);
isc_result_t prepare_lookup(dns_name_t *name);
isc_result_t grandfather_pb_test(dns_name_t * zone_name,
                       dns_rdataset_t *sigrdataset);
isc_result_t child_of_zone(dns_name_t *name,
dns_name_t *zone_name,
dns_name_t *child_name);
void sigchase_td(dns_message_t *msg);
#endif
char trustedkey[MXNAME] = "";
dns_rdataset_t *chase_rdataset = NULL;
dns_rdataset_t *chase_sigrdataset = NULL;
dns_rdataset_t *chase_dsrdataset = NULL;
dns_rdataset_t *chase_signsrdataset = NULL;
dns_rdataset_t *chase_sigsrdataset = NULL;
dns_rdataset_t *chase_sigkeyrdataset = NULL;
dns_rdataset_t *chase_keyrdataset = NULL;
dns_rdataset_t *chase_nsrdataset = NULL;
dns_name_t chase_name; /* the query name */
#endif
#endif
bool chase_siglookedup = false;
bool chase_keylookedup = false;
bool chase_signsigkeylookedup = false;
bool chase_dslookedup = false;
bool chase_signsdslookedup = false;
#endif
bool delegation_follow = false;
bool grandfather_pb = false;
bool have_response = false;
bool have_delegation_ns = false;
dns_message_t * error_message = NULL;
#endif
bool dsvalidating = false;
bool chase_siglookedup = false;
bool chase_keylookedup = false;
bool chase_signsigkeylookedup = false;
bool chase_dslookedup = false;
bool chase_signsdslookedup = false;
#endif
bool delegation_follow = false;
bool grandfather_pb = false;
bool have_response = false;
bool have_delegation_ns = false;
dns_message_t * error_message = NULL;
#endif
bool dsvalidating = false;
bool chase_name_dup = false;

ISC_LIST(dig_message_t) chase_message_list;
ISC_LIST(dig_message_t) chase_message_list2;

#define MAX_TRUSTED_KEY 5
typedef struct struct_trusted_key_list {
  dst_key_t * key[MAX_TRUSTED_KEY];
  int nb_tk;
} struct_tk_list;

struct_tk_list tk_list = { {NULL, NULL, NULL, NULL, NULL}, 0};

#endif

#define DIG_MAX_ADDRESSES 20

/*%
 * Apply and clear locks at the event level in global task.
 * Can I get rid of these using shutdown events?  XXX
 */
#define LOCK_LOOKUP {
  debug("lock_lookup %s:%d", __FILE__, __LINE__);
  check_result(isc_mutex_lock((&lookup_lock)), "isc_mutex_lock");
  debug("success");
}
#define UNLOCK_LOOKUP {
  debug("unlock_lookup %s:%d", __FILE__, __LINE__);
  check_result(isc_mutex_unlock((&lookup_lock)),
    "isc_mutex_unlock");
}
/* dynamic callbacks */
#ifdef DIG_SIGCHASE
isc_result_t (*dighost_printrdataset)(dns_name_t *owner_name, dns_rdataset_t *rdataset,
  isc_buffer_t *target);
#endif
isc_result_t (*dighost_printmessage)(dig_query_t *query, dns_message_t *msg,
  bool headers);

void (*dighost_received)(unsigned int bytes, isc_sockaddr_t *from, dig_query_t *query);
void
(*dighost_trying)(char *frm, dig_lookup_t *lookup);

void
(*dighost_shutdown)(void);

/* forward declarations */

static void
cancel_lookup(dig_lookup_t *lookup);

static void
recv_done(isc_task_t *task, isc_event_t *event);

static void
send_udp(dig_query_t *query);

static void
connect_timeout(isc_task_t *task, isc_event_t *event);

static void
launch_next_query(dig_query_t *query, bool include_question);

static void
check_next_lookup(dig_lookup_t *lookup);

static bool
next_origin(dig_lookup_t *oldlookup);

static void *
mem_alloc(void *arg, size_t size) {
    return (isc_mem_get(arg, size));
}

static void
mem_free(void *arg, void *mem, size_t size) {
    isc_mem_put(arg, mem, size);
}

char *
next_token(char **stringp, const char *delim) {
    char *res;

    do {
        res = strsep(stringp, delim);
        if (res == NULL)
            break;
    } while (*res != '\0');
return (res);
}

static int
count_dots(char *string) {
    char *s;
    int i = 0;

    s = string;
    while (*s != '\0') {
        if (*s == '.')
            i++;
        s++;
    }
    return (i);
}

static void
hex_dump(isc_buffer_t *b) {
    unsigned int len, i;
    isc_region_t r;

    isc_buffer_usedregion(b, &r);

    printf("%u bytes\n", r.length);
    for (len = 0; len < r.length; len++) {
        printf("%02x ", r.base[len]);
        if (len % 16 == 15) {
            for (i = len - 15; i <= len; i++)
                if (r.base[i] >= '!' && r.base[i] <= '}')
                    putchar(r.base[i]);
                else
                    putchar('.');
        }
        printf("\n");
    }
    for (i = len; (i % 16) != 0; i++)
        puts("   ", stdout);
    puts("         ", stdout);
    for (i = ((len>>4)<<4); i < len; i++) {
        if (r.base[i] >= '!' && r.base[i] <= '}')
            putchar(r.base[i]);
        else
            putchar('.');
    }
}
printf("\n");
}
}
/*%
* Append 'len' bytes of 'text' at '*p', failing with
* ISC_R_NOSPACE if that would advance p past 'end'.
*/
static isc_result_t
append(const char *text, size_t len, char **p, char *end) {
if (*p + len > end)
return (ISC_R_NOSPACE);
memmove(*p, text, len);
*p += len;
return (ISC_R_SUCCESS);
}
static isc_result_t
reverse_octets(const char *in, char **p, char *end) {
const char *dot = strchr(in, '.');
size_t len;
if (dot != NULL) {
isc_result_t result;
result = reverse_octets(dot + 1, p, end);
if (result != ISC_R_SUCCESS)
return (result);
result = append(".", 1, p, end);
if (result != ISC_R_SUCCESS)
return (result);
len = (int) (dot - in);
} else {
len = (int) strlen(in);
}
return (append(in, len, p, end));
}
isc_result_t
get_reverse(char *reverse, size_t len, char *value, bool ip6_int,
bool strict)
{
int r;
isc_result_t result;
isc_netaddr_t addr;
addr.family = AF_INET6;
r = inet_pton(AF_INET6, value, &addr.type.in6);
if (r > 0) {
/* This is a valid IPv6 address. */

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dns_fixedname_t fname;
dns_name_t *name;
unsigned int options = 0;

if (ip6_int)
options |= DNS_BYADDROPT_IPV6INT;
nname = dns_fixedname_initname(&fname);
result = dns_byaddr_createptrname2(&addr, options, name);
if (result != ISC_R_SUCCESS)
  return (result);

dns_name_format(name, reverse, (unsigned int)len);
return (ISC_R_SUCCESS);
} else {
/*
 * Not a valid IPv6 address. Assume IPv4.
 * If 'strict' is not set, construct the
 * in-addr.arpa name by blindly reversing
 * octets whether or not they look like integers,
 * so that this can be used for RFC2317 names
 * and such.
 */
char *p = reverse;
char *end = reverse + len;
if (strict && inet_pton(AF_INET, value, &addr.type.in) != 1)
  return (DNS_R_BADDETTEDQUAD);
result = reverse_octets(value, &p, end);
if (result != ISC_R_SUCCESS)
  return (result);
/* Append .in-addr.arpa. and a terminating NUL. */
result = append(".in-addr.arpa.", 15, &p, end);
if (result != ISC_R_SUCCESS)
  return (result);
return (ISC_R_SUCCESS);
}

void
fatal(const char *format, ...) {
  va_list args;

  fflush(stdout);
  fprintf(stderr, "%s: ", progname);
  va_start(args, format);
  vfprintf(stderr, format, args);
  va_end(args);
  fprintf(stderr, "\n");
  if (exitcode < 10)
    exitcode = 10;
if (fatalexit != 0)
exitcode = fatalexit;
exit(exitcode);
}

void
ddebug(const char *format, ...) {
va_list args;
isc_time_t t;

if (debugging) {
fflush(stdout);
if (debugtiming) {
TIME_NOW(&t);
fprintf(stderr, "%lu.%06lu: ", isc_time_seconds(&t),
isc_time_nanoseconds(&t) / 1000);
}
va_start(args, format);
vfprintf(stderr, format, args);
va_end(args);
fprintf(stderr, "\n");
}
}

void
ccheck_result(isc_result_t result, const char *msg) {
if (result != ISC_R_SUCCESS) {
fatal("%s: %s", msg, isc_result_totext(result));
}
}

/*
* Create a server structure, which is part of the lookup structure.
* This is little more than a linked list of servers to query in hopes
* of finding the answer the user is looking for
*/
dig_server_t *
mmake_server(const char *servname, const char *userarg) {
dig_server_t *srv;

REQUIRE(servname != NULL);

ddebug("make_server(%s)", servname);
srv = isc_mem_allocate(mctx, sizeof(struct dig_server));
if (srv == NULL)
fatal("memory allocation failure in %s:%d",
__FILE__, __LINE__);strcpy(srv->servername, servname, MXNAME);
static int
addr2af(int lwresaddrtype)
{
    int af = 0;

    switch (lwresaddrtype) {
    case LWRES_ADDRTYPE_V4:
        af = AF_INET;
        break;

    case LWRES_ADDRTYPE_V6:
        af = AF_INET6;
        break;
    }

    return (af);
}

/*%
 * Create a copy of the server list from the lwres configuration structure.
 * The dest list must have already had ISC_LIST_INIT applied.
 */
static void
copy_server_list(lwres_conf_t *confdata, dig_serverlist_t *dest) {
    dig_server_t *newsrv;
        sizeof("%4000000000")];
    int af;
    int i;

    debug("copy_server_list()");
    for (i = 0; i < confdata->nsnext; i++) {
        af = addr2af(confdata->nameservers[i].family);
        if (af == AF_INET && !have_ipv4)
            continue;
        if (af == AF_INET6 && !have_ipv6)
            continue;

        lwres_net_ntop(af, confdata->nameservers[i].address,
            tmp, sizeof(tmp));
        if (af == AF_INET6 && confdata->nameservers[i].zone != 0) {  
            char buf[sizeof("%4000000000")];
            
            strlcpy(srv->userarg, userarg, MXNAME);
            ISC_LINK_INIT(srv, link);
            return (srv);
        }

        switch (lwresaddrtype) {
        case LWRES_ADDRTYPE_V4:
            af = AF_INET;
            break;

        case LWRES_ADDRTYPE_V6:
            af = AF_INET6;
            break;
        }

        return (af);
    }

    /*%
    * Create a copy of the server list from the lwres configuration structure.
    * The dest list must have already had ISC_LIST_INIT applied.
    */
    static void
copy_server_list(lwres_conf_t *confdata, dig_serverlist_t *dest) {
    dig_server_t *newsrv;
        sizeof("%4000000000")];
    int af;
    int i;

    debug("copy_server_list()");
    for (i = 0; i < confdata->nsnext; i++) {
        af = addr2af(confdata->nameservers[i].family);
        if (af == AF_INET && !have_ipv4)
            continue;
        if (af == AF_INET6 && !have_ipv6)
            continue;

        lwres_net_ntop(af, confdata->nameservers[i].address,
            tmp, sizeof(tmp));
        if (af == AF_INET6 && confdata->nameservers[i].zone != 0) {  
            char buf[sizeof("%4000000000")];
            
            strlcpy(srv->userarg, userarg, MXNAME);
            ISC_LINK_INIT(srv, link);
            return (srv);
        }

        switch (lwresaddrtype) {
        case LWRES_ADDRTYPE_V4:
            af = AF_INET;
            break;

        case LWRES_ADDRTYPE_V6:
            af = AF_INET6;
            break;
        }

        return (af);
    }
}}
void
flush_server_list(void) {

dig_server_t *s, *ps;

ddebug("flush_server_list()");
s = ISC_LIST_HEAD(server_list);
while (s != NULL) {
    ps = s;
    s = ISC_LIST_NEXT(s, link);
    ISC_LIST_DEQUEUE(server_list, ps, link);
    isc_mem_free(mctx, ps);
}
}

void
set_nameserver(char *opt) {
isc_result_t result;
isc_sockaddr_t sockaddr[DIG_MAX_ADDRESSES];
isc_netaddr_t netaddr;
int count, i;
dig_server_t *srv;
char tmp[ISC_NETADDR_FORMATSIZE];

if (opt == NULL)
    return;

result = bind9_getaddresses(opt, 0, sockaddr,
    DIG_MAX_ADDRESSES, &count);
if (result != ISC_R_SUCCESS)
    fatal("couldn't get address for '%s': %s",
        opt, isc_result_totext(result));
flush_server_list();

for (i = 0; i < count; i++) {
    isc_netaddr_fromsockaddr(&netaddr, &sockaddr[i]);
    isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
    srv = make_server(tmp, opt);

if (srv == NULL)
    fatal("memory allocation failure");
ISC_LIST_APPEND(server_list, srv, link);
}

static isc_result_t
add_nameserver(lwres_conf_t *confdata, const char *addr, int af) {
    int i = confdata->nsnext;
    if (confdata->nsnext >= LWRES_CONFMAXNAMESERVERS)
        return (ISC_R_FAILURE);

    switch (af) {
    case AF_INET:
        confdata->nameservers[i].family = LWRES_ADDRTYPE_V4;
        confdata->nameservers[i].length = NS_INADDRSZ;
        break;
    case AF_INET6:
        confdata->nameservers[i].family = LWRES_ADDRTYPE_V6;
        confdata->nameservers[i].length = NS_INET6ADDRSZ;
        break;
    default:
        return (ISC_R_FAILURE);
    }
    if (lwres_net_pton(af, addr, &confdata->nameservers[i].address) == 1) {
        confdata->nsnext++;
        return (ISC_R_SUCCESS);
    }
    return (ISC_R_FAILURE);
}

/*
 * Produce a cloned server list.  The dest list must have already had
 * ISC_LIST_INIT applied.
 */
void
clone_server_list(dig_serverlist_t src, dig_serverlist_t *dest) {
    dig_server_t *srv, *newsrv;

direct("clone_server_list()");
    srv = ISC_LIST_HEAD(src);
    while (srv != NULL) {
        newsrv = make_server(srv->servername, srv->userarg);
        ISC_LINK_INIT(newsrv, link);
        ISC_LIST_ENQUEUE(*dest, newsrv, link);
        }
srv = ISC_LIST_NEXT(srv, link);
}
}

/*%
 * Create an empty lookup structure, which holds all the information needed
 * to get an answer to a user's question. This structure contains two
 * linked lists: the server list (servers to query) and the query list
 * (outstanding queries which have been made to the listed servers).
 */
dig_lookup_t *
make_empty_lookup(void) {
    dig_lookup_t *looknew;

    debug("make_empty_lookup()");

    INSIST(!free_now);

    looknew = isc_mem_allocate(mctx, sizeof(struct dig_lookup));
    if (looknew == NULL)
        fatal("memory allocation failure in %s:%d",
             __FILE__, __LINE__);
    looknew->pending = true;
    looknew->textname[0] = 0;
    looknew->cmdline[0] = 0;
    looknew->rdtype = dns_rdatatype_a;
    looknew->qrdtype = dns_rdatatype_a;
    looknew->rdclass = dns_rdataclass_in;
    looknew->rdtypeset = false;
    looknew->rdclassset = false;
    looknew->sendspace = NULL;
    looknew->sendmsg = NULL;
    looknew->name = NULL;
    looknew->oname = NULL;
    looknew->xfr_q = NULL;
    looknew->current_query = NULL;
    looknew->doing_xfr = false;
    looknew->ixfr_serial = 0;
    looknew->trace = false;
    looknew->trace_root = false;
    looknew->identify = false;
    looknew->identify_previous_line = false;
    looknew->ignore = false;
    looknew->servfail_stops = true;
    looknew->besteffort = true;
    looknew->dnssec = false;
    looknew->ednsflags = 0;
    looknew->opcode = dns_opcode_query;
looknew->expire = false;
looknew->nsid = false;
looknew->header_only = false;
looknew->sendcookie = false;
looknew->seenbadcookie = false;
looknew->badcookie = true;
#ifdef WITH_IDN_SUPPORT
looknew->idnin = isatty(1)?(getenv("IDN_DISABLE") == NULL):false;
#else
looknew->idnin = false;
#endif
#ifdef WITH_IDN_OUT_SUPPORT
looknew->idnout = looknew->idnin;
#else
looknew->idnout = false;
#endif
#ifdef DIG_SIGCHASE
looknew->sigchase = false;
#endif
#if DIG_SIGCHASE_TD
looknew->do_topdown = false;
looknew->trace_root_sigchase = false;
looknew->rtype_sigchaseset = false;
looknew->rtype_sigchase = dns_rdatatype_any;
looknew->qrdtype_sigchase = dns_rdatatype_any;
looknew->rdclass_sigchase = dns_rdataclass_in;
looknew->rdclass_sigchaseset = false;
#endif
#endif
looknew->udpsize = 0;
looknew->edns = -1;
looknew->recurse = true;
looknew->aasonly = false;
looknew->adflag = false;
looknew->cdflag = false;
looknew->print_unknown_format = false;
looknew->zflag = false;
looknew->ns_search_only = false;
looknew->origin = NULL;
looknew->tsigctx = NULL;
looknew->querysig = NULL;
looknew->retries = tries;
looknew->nsfound = 0;
looknew->tcp_mode = false;
looknew->tcp_mode_set = false;
looknew->ip6_int = false;
looknew->comments = true;
looknew->stats = true;
looknew->section_question = true;
looknew->section_answer = true;
looknew->section_authority = true;
looknew->section_additional = true;
looknew->new_search = false;
looknew->done_as_is = false;
looknew->need_search = false;
looknew->ecs_addr = NULL;
looknew->cookie = NULL;
looknew->ednsopts = NULL;
looknew->ednsoptscnt = 0;
looknew->ednsneg = true;
looknew->mapped = true;
looknew->dscp = -1;
looknew->eoferr = 0;
dns_fixedname_init(&looknew->fdomain);
ISC_LINK_INIT(looknew, link);
ISC_LIST_INIT(looknew->q);
ISC_LIST_INIT(looknew->connecting);
ISC_LIST_INIT(looknew->my_server_list);
return (looknew);
}

#define EDNSOPT_OPTIONS 100U

static void
cloneopts(dig_lookup_t *looknew, dig_lookup_t *lookold) {
    size_t len = sizeof(looknew->ednsopts[0]) * EDNSOPT_OPTIONS;
    size_t i;
    looknew->ednsopts = isc_mem_allocate(mctx, len);
    if (looknew->ednsopts == NULL)
        fatal("out of memory");
    for (i = 0; i < EDNSOPT_OPTIONS; i++) {
        looknew->ednsopts[i].code = 0;
        looknew->ednsopts[i].length = 0;
        looknew->ednsopts[i].value = NULL;
    }
    looknew->ednsoptscnt = 0;
    if (lookold == NULL || lookold->ednsopts == NULL)
        return;
    for (i = 0; i < lookold->ednsoptscnt; i++) {
        len = lookold->ednsopts[i].length;
        if (len != 0) {
            INSIST(lookold->ednsopts[i].value != NULL);
            looknew->ednsopts[i].value =
                isc_mem_allocate(mctx, len);
            if (looknew->ednsopts[i].value == NULL)
                fatal("out of memory");
        }
    }
}
memmove(looknew->ednsopts[i].value, 
lookold->ednsopts[i].value, len);
}
looknew->ednsopts[i].code = lookold->ednsopts[i].code;
looknew->ednsopts[i].length = len;
}
looknew->ednsoptscnt = lookold->ednsoptscnt;
}

/*
 * Clone a lookup, perhaps copying the server list. This does not clone
 * the query list, since it will be regenerated by the setup_lookup()
 * function, nor does it queue up the new lookup for processing.
 * Caution: If you don't clone the servers, you MUST clone the server
 * list separately from somewhere else, or construct it by hand.
 */
dig_lookup_t *
clone_lookup(dig_lookup_t *lookold, bool servers) {
    dig_lookup_t *looknew;

debug("clone_lookup()");

INSIST(!free_now);

looknew = make_empty_lookup();
INSIST(looknew != NULL);
strlcpy(looknew->textname, lookold->textname, MXNAME);
#if DIG_SIGCHASE_TD
strlcpy(looknew->textnamesigchase, lookold->textnamesigchase, MXNAME);
#endif
strlcpy(looknew->cmdline, lookold->cmdline, MXNAME);
looknew->textname[MXNAME-1] = 0;
looknew->rdtype = lookold->rdtype;
looknew->qrdtype = lookold->qrdtype;
looknew->rdclass = lookold->rdclass;
looknew->rdtypeset = lookold->rdtypeset;
looknew->rdclassset = lookold->rdclassset;
looknew->doing_xfr = lookold->doing_xfr;
looknew->ixfr_serial = lookold->ixfr_serial;
looknew->trace = lookold->trace;
looknew->trace_root = lookold->trace_root;
looknew->identify = lookold->identify;
looknew->identify_previous_line = lookold->identify_previous_line;
looknew->ignore = lookold->ignore;
looknew->servfail_stops = lookold->servfail_stops;
looknew->besteffort = lookold->besteffort;
looknew->dnssec = lookold->dnssec;
looknew->ednsflags = lookold->ednsflags;
looknew->opcode = lookold->opcode;
looknew->expire = lookold->expire;
looknew->nsid = lookold->nsid;
looknew->header_only = lookold->header_only;
looknew->sendcookie = lookold->sendcookie;
looknew->seenbadcookie = lookold->seenbadcookie;
looknew->badcookie = lookold->badcookie;
looknew->cookie = lookold->cookie;
if (lookold->ednsopts != NULL) {
    cloneopts(looknew, lookold);
} else {
    looknew->ednsopts = NULL;
    looknew->ednsoptscnt = 0;
}
looknew->ednsneg = lookold->ednsneg;
looknew->mapped = lookold->mapped;
looknew->idnin = lookold->idnin;
looknew->idnout = lookold->idnout;
#ifdef DIG_SIGCHASE
looknew->sigchase = lookold->sigchase;
#endif
looknew->do_topdown = lookold->do_topdown;
looknew->trace_root_sigchase = lookold->trace_root_sigchase;
looknew->rdtype_sigchaseset = lookold->rdtype_sigchaseset;
looknew->rdtype_sigchase = lookold->rdtype_sigchase;
looknew->qrdtype_sigchase = lookold->qrdtype_sigchase;
looknew->rdclass_sigchase = lookold->rdclass_sigchase;
looknew->rdclass_sigsigchaseset = lookold->rdclass_sigsigchaseset;
#endif
looknew->udpsize = lookold->udpsize;
looknew->edns = lookold->edns;
looknew->recurse = lookold->recurse;
looknew->aaonly = lookold->aaonly;
looknew->adflag = lookold->adflag;
looknew->cdflag = lookold->cdflag;
looknew->print_unknown_format = lookold->print_unknown_format;
looknew->zflag = lookold->zflag;
looknew->ns_search_only = lookold->ns_search_only;
looknew->tcp_mode = lookold->tcp_mode;
looknew->tcp_mode_set = lookold->tcp_mode_set;
looknew->comments = lookold->comments;
looknew->stats = lookold->stats;
looknew->section_question = lookold->section_question;
looknew->section_answer = lookold->section_answer;
looknew->section_authority = lookold->section_authority;
looknew->section_additional = lookold->section_additional;
looknew->origin = lookold->origin;
looknew->retries = lookold->retries;
looknew->tsigctx = NULL;
looknew->need_search = lookold->need_search;
looknew->done_as_is = lookold->done_as_is;
looknew->dscp = lookold->dscp;
looknew->eoferr = lookold->eoferr;

if (lookold->ecs_addr != NULL) {
    size_t len = sizeof(isc_sockaddr_t);
    looknew->ecs_addr = isc_mem_allocate(mctx, len);
    if (looknew->ecs_addr == NULL)
        fatal("out of memory");
    memmove(looknew->ecs_addr, lookold->ecs_addr, len);
}

dns_name_copy(dns_fixedname_name(&lookold->fdomain),
              dns_fixedname_name(&looknew->fdomain), NULL);

if (servers)
    clone_server_list(lookold->my_server_list,
                     &looknew->my_server_list);
return (looknew);
}

/*%
* Requeue a lookup for further processing, perhaps copying the server
* list. The new lookup structure is returned to the caller, and is
* queued for processing. If servers are not cloned in the requeue, they
* must be added before allowing the current event to complete, since the
* completion of the event may result in the next entry on the lookup
* queue getting run.
*/
dig_lookup_t *
requeue_lookup(dig_lookup_t *lookold, bool servers) {
    dig Lookup T new;

ddebug("requeue_lookup()");

lookup_counter++;
if (lookup_counter > LOOKUP_LIMIT)
    fatal("too many lookups");

looknew = clone_lookup(lookold, servers);
INSIST(looknew != NULL);

ddebug("before insertion, init@%p -> %p, new@%p -> %p",
       lookold, lookold->link.next, looknew, looknew->link.next);
ISC LIST PREPEND(lookup list, looknew, link);
debug("after insertion, init -> %p, new = %p, new -> %p",
    lookold, looknew, looknew->link.next);
return (looknew);
}

void
setup_text_key(void) {
    isc_result_t result;
    dns_name_t keyname;
    isc_buffer_t secretbuf;
    unsigned int secretsize;
    unsigned char *secretstore;

    debug("setup_text_key()");
    result = isc_buffer_allocate(mctx, &namebuf, MXNAME);
    check_result(result, "isc_buffer_allocate");
    dns_name_init(&keyname, NULL);
    check_result(result, "dns_name_init");
    isc_buffer_putstr(namebuf, keynametext);
    secretsize = (unsigned int) strlen(keysecret) * 3 / 4;
    secretstore = isc_mem_allocate(mctx, secretsize);
    if (secretstore == NULL)
        fatal("memory allocation failure in %s:%d",
             __FILE__, __LINE__);
    isc_buffer_init(&secretbuf, secretstore, secretsize);
    result = isc_base64_decodestring(keysecret, &secretbuf);
    if (result != ISC_R_SUCCESS)
        goto failure;
    secretsize = isc_buffer_usedlength(&secretbuf);

    if (hmacname == NULL) {
        result = DST_R_UNSUPPORTEDALG;
        goto failure;
    }
    result = dns_name_fromtext(&keyname, namebuf, dns_rootname, 0, namebuf);
    if (result != ISC_R_SUCCESS)
        goto failure;
    result = dns_tsigkey_create(&keyname, hmacname, secretstore,
                                (int)secretsize, false, NULL, 0, 0,
                                mctx, NULL, &tsigkey);
    failure:
    if (result != ISC_R_SUCCESS)
        printf(";; Couldn't create key %s: %s\n",
               keynametext, isc_result_totext(result));
else
dst_key_setbits(tsigkey->key, digestbits);

isc_mem_free(mctx, secretstore);
dns_name_invalidate(&keyname);
isc_buffer_free(&namebuf);
}

static isc_result_t
parse_uint_helper(uint32_t *uip, const char *value, uint32_t max,
                   const char *desc, int base) {
  uint32_t n;
  isc_result_t result = isc_parse_uint32(&n, value, base);
  if (result == ISC_R_SUCCESS && n > max)
    result = ISC_R_RANGE;
  if (result != ISC_R_SUCCESS) {
    printf("invalid %s '%s': %s\n", desc,
           value, isc_result_totext(result));
    return (result);
  }
  *uip = n;
  return (ISC_R_SUCCESS);
}

isc_result_t
parse_uint(uint32_t *uip, const char *value, uint32_t max,
            const char *desc) {
  return (parse_uint_helper(uip, value, max, desc, 10));
}

isc_result_t
parse_xint(uint32_t *uip, const char *value, uint32_t max,
           const char *desc) {
  return (parse_uint_helper(uip, value, max, desc, 0));
}

static uint32_t
parse_bits(char *arg, const char *desc, uint32_t max) {
  isc_result_t result;
  uint32_t tmp;

  result = parse_uint(&tmp, arg, max, desc);
  if (result != ISC_R_SUCCESS)
    fatal("couldn't parse digest bits");
  tmp = (tmp + 7) & ~0x7U;
  return (tmp);
}
isc_result_t
parse_netprefix(isc_sockaddr_t **sap, const char *value) {
    isc_result_t result = ISC_R_SUCCESS;
    isc_sockaddr_t *sa = NULL;
    struct in_addr in4;
    struct in6_addr in6;
    uint32_t prefix_length = 0xffffffff;
    char *slash = NULL;
    bool parsed = false;
    bool prefix_parsed = false;

    REQUIRE(sap != NULL && *sap == NULL);

    if (strlcpy(buf, value, sizeof(buf)) >= sizeof(buf))
        fatal("invalid prefix '%s'", value);

    sa = isc_mem_allocate(mctx, sizeof(*sa));
    if (sa == NULL)
        fatal("out of memory");
    memset(sa, 0, sizeof(*sa));

    if (strcmp(buf, "0") == 0) {
        sa->type.sa = AF_UNSPEC;
        prefix_length = 0;
        goto done;
    }

    slash = strchr(buf, '/');
    if (slash != NULL) {
        *slash = '\0';
        result = isc_parse_uint32(&prefix_length, slash + 1, 10);
        if (result != ISC_R_SUCCESS) {
            fatal("invalid prefix length in '%s': %s", value, isc_result_totext(result));
        }
        prefix_parsed = true;
    }

    if (inet_pton(AF_INET6, buf, &in6) == 1) {
        parsed = true;
        isc_sockaddr_fromin6(sa, &in6, 0);
        if (prefix_length > 128)
            prefix_length = 128;
    } else if (inet_pton(AF_INET, buf, &in4) == 1) {
        parsed = true;
        isc_sockaddr_fromin(sa, &in4, 0);
        if (prefix_length > 32)
prefix_length = 32;
} else if (prefix_parsed) {
    int i;

    for (i = 0; i < 3 && strlen(buf) < sizeof(buf) - 2; i++) {
        strlcat(buf, ".0", sizeof(buf));
        if (inet_pton(AF_INET, buf, &in4) == 1) {
            parsed = true;
            isc_sockaddr_fromin(sa, &in4, 0);
            break;
        }
    }

    if (prefix_length > 32)
        prefix_length = 32;
}

if (!parsed)
    fatal("invalid address '%s'", value);

done:
    sa->length = prefix_length;
    *sap = sa;

    return (ISC_R_SUCCESS);
}

/*
 * Parse HMAC algorithm specification
 */

void
parse_hmac(const char *hmac) {
    char buf[20];
    size_t len;

    REQUIRE(hmac != NULL);
    len = strlen(hmac);
    if (len >= sizeof(buf))
        fatal("unknown key type '%s'", (int)len, hmac);
    strlcpy(buf, hmac, sizeof(buf));
    digestbits = 0;

    #ifndef PK11_MD5_DISABLE
    if (strcasecmp(buf, "hmac-md5") == 0) {
        hmacname = DNS_TSIG_HMACMD5_NAME;
    } else if (strncmp(buf, "hmac-md5-", 9) == 0) {
        }
hmacname = DNS_TSIG_HMACMD5_NAME;
digestbits = parse_bits(&buf[9], "digest-bits [0..128]", 128);
} else
#endif
if (strcasecmp(buf, "hmac-sha1") == 0) {
  hmacname = DNS_TSIG_HMACSHA1_NAME;
digestbits = 0;
} else if (strncasecmp(buf, "hmac-sha1-", 10) == 0) {
  hmacname = DNS_TSIG_HMACSHA1_NAME;
digestbits = parse_bits(&buf[10], "digest-bits [0..160]", 160);
} else if (strncasecmp(buf, "hmac-sha224-", 12) == 0) {
  hmacname = DNS_TSIG_HMACSHA224_NAME;
digestbits = parse_bits(&buf[12], "digest-bits [0..224]", 224);
} else if (strncasecmp(buf, "hmac-sha256-", 12) == 0) {
  hmacname = DNS_TSIG_HMACSHA256_NAME;
digestbits = parse_bits(&buf[12], "digest-bits [0..256]", 256);
} else if (strncasecmp(buf, "hmac-sha384-", 12) == 0) {
  hmacname = DNS_TSIG_HMACSHA384_NAME;
digestbits = parse_bits(&buf[12], "digest-bits [0..384]", 384);
} else if (strncasecmp(buf, "hmac-sha512-", 12) == 0) {
  hmacname = DNS_TSIG_HMACSHA512_NAME;
digestbits = parse_bits(&buf[12], "digest-bits [0..512]", 512);
} else {
  fprintf(stderr, ";; Warning, ignoring 
" "invalid TSIG algorithm %s\n", buf);
}
}

/*
 * Get a key from a named.conf format keyfile
 */
static isc_result_t
read_confkey(void) {
  cfg_parser_t *pctx = NULL;
  cfg_obj_t *file = NULL;
  const cfg_obj_t *keyobj = NULL;
  const cfg_obj_t *secretobj = NULL;
  const cfg_obj_t *algorithmobj = NULL;
  const char *keyname;
  const char *secretstr;

  /*
const char *algorithm;
isc_result_t result;

if (! isc_file_exists(keyfile))
return (ISC_R_FILENOTFOUND);

result = cfg_parser_create(mctx, NULL, &pctx);
if (result != ISC_R_SUCCESS)
goto cleanup;

result = cfg_parse_file(pctx, keyfile, &cfg_type_sessionkey, &file);
if (result != ISC_R_SUCCESS)
goto cleanup;

result = cfg_map_get(file, "key", &keyobj);
if (result != ISC_R_SUCCESS)
goto cleanup;

(void) cfg_map_get(keyobj, "secret", &secretobj);
(void) cfg_map_get(keyobj, "algorithm", &algorithmobj);
if (secretobj == NULL || algorithmobj == NULL)
fatal("key must have algorithm and secret");

keyname = cfg_obj_asstring(cfg_map_getname(keyobj));
secretstr = cfg_obj_asstring(secretobj);
algorithm = cfg_obj_asstring(algorithmobj);

strlcpy(keynametext, keyname, sizeof(keynametext));
strlcpy(keysecret, secretstr, sizeof(keysecret));
parse_hmac(algorithm);
setup_text_key();

cleanup:
if (pctx != NULL) {
if (file != NULL)
cfg_obj_destroy(pctx, &file);
cfg_parser_destroy(&pctx);
}

return (result);
}

void
setup_file_key(void) {
isc_result_t result;
dst_key_t *dstkey = NULL;

debug("setup_file_key()");  

/* Try reading the key from a K* pair */
result = dst_key_fromnamedfile(keyfile, NULL,
        DST_TYPE_PRIVATE | DST_TYPE_KEY, mctx,
        &dstkey);

/* If that didn't work, try reading it as a session.key keyfile */
if (result != ISC_R_SUCCESS) {
    result = read_confkey();
    if (result == ISC_R_SUCCESS)
        return;
}

if (result != ISC_R_SUCCESS) {
    fprintf(stderr, "Couldn't read key from %s: %s\n",
            keyfile, isc_result_totext(result));
    goto failure;
}

switch (dst_key_alg(dstkey)) {
    #ifndef PK11_MD5_DISABLE
        case DST_ALG_HMACMD5:
            hmacname = DNS_TSIG_HMACMD5_NAME;
            break;
    #endif
    case DST_ALG_HMACSHA1:
        hmacname = DNS_TSIG_HMACSHA1_NAME;
        break;
    case DST_ALG_HMACSHA224:
        hmacname = DNS_TSIG_HMACSHA224_NAME;
        break;
    case DST_ALG_HMACSHA256:
        hmacname = DNS_TSIG_HMACSHA256_NAME;
        break;
    case DST_ALG_HMACSHA384:
        hmacname = DNS_TSIG_HMACSHA384_NAME;
        break;
    case DST_ALG_HMACSHA512:
        hmacname = DNS_TSIG_HMACSHA512_NAME;
        break;
    default:
        printf(";; Couldn't create key %s: bad algorithm\n",
            keynametext);
        goto failure;
    }
result = dns_tsigkey_createfromkey(dst_key_name(dstkey), hmacname,
        dstkey, false, NULL, 0, 0,
mctx, NULL, &tsigkey);
if (result != ISC_R_SUCCESS) {
    printf(";; Couldn't create key %s: %s\n",
            keynametext, isc_result_totext(result));
goto failure;
}
failure:
if (dstkey != NULL)
dst_key_free(&dstkey);

static dig_searchlist_t *
make_searchlist_entry(char *domain) {
dig_searchlist_t *search;
search = isc_mem_allocate(mctx, sizeof(*search));
if (search == NULL)
fatal("memory allocation failure in %s:%d",
    __FILE__, __LINE__);;
    strlcpy(search->origin, domain, MXNAME);
    search->origin[MXNAME-1] = 0;
    ISC_LINK_INIT(search, link);
    return (search);
}

static void
create_search_list(lwres_conf_t *confdata) {
    int i;
dig_searchlist_t *search;

dbug("create_search_list()");
clear_searchlist();

    for (i = 0; i < confdata->searchnxt; i++) {
        search = make_searchlist_entry(confdata->search[i]);
        ISC_LIST_APPEND(search_list, search, link);
    }
}

/*%
void setup_system(bool ipv4only, bool ipv6only) {
    dig_searchlist_t *domain = NULL;
    lwres_result_t lwresult;
    unsigned int lwresflags;
    isc_result_t result;

    debug("setup_system()");

    if (ipv4only) {
        if (have_ipv4) {
            isc_net_disableipv6();
            have_ipv6 = false;
        } else {
            fatal("can't find IPv4 networking");
        }
    }

    if (ipv6only) {
        if (have_ipv6) {
            isc_net_disableipv4();
            have_ipv4 = false;
        } else {
            fatal("can't find IPv6 networking");
        }
    }

    lwresflags = LWRES_CONTEXT_SERVERMODE;
    if (have_ipv4)
        lwresflags |= LWRES_CONTEXT_USEIPV4;
    if (have_ipv6)
        lwresflags |= LWRES_CONTEXT_USEIPV6;

    lwresult = lwres_context_create(&lwctx, mctx, mem_alloc, mem_free,
                                    lwresflags);
    if (lwresult != LWRES_R_SUCCESS)
        fatal("lwres_context_create failed");

    lwresult = lwres_conf_parse(lwctx, RESOLV_CONF);
    if (lwresult != LWRES_R_SUCCESS && lwresult != LWRES_R_NOTFOUND)
        fatal("parse of %s failed", RESOLV_CONF);

    lwconf = lwres_conf_get(lwctx);

    /* Make the search list */
if (lwconf->searchnxt > 0)
create_search_list(lwconf);
else { /* No search list. Use the domain name if any */
if (lwconf->domainname != NULL) {
domain = make_searchlist_entry(lwconf->domainname);
ISC_LIST_APPEND(search_list, domain, link);
domain = NULL;
}
}

if (lwconf->resdebug) {
verbose = true;
dbreg("verbose is on");
}
if (ndots == -1) {
ndots = lwconf->ndots;
dbreg("ndots is \%d\", ndots);
}
if (lwconf->attempts) {
tries = lwconf->attempts + 1;
if (tries < 2)
tries = 2;
dbreg("tries is \%d\", tries);
}
if (lwconf->timeout) {
timeout = lwconf->timeout;
dbreg("timeout is \%d\", timeout);
}

/* If user doesn't specify server use nameservers from resolv.conf. */
if (ISC_LIST_EMPTY(server_list))
copy_server_list(lwconf, &server_list);

/* If we don't find a nameserver fall back to localhost */
if (ISC_LIST_EMPTY(server_list)) {
if (have_ipv4) {
lwresult = add_nameserver(lwconf, "127.0.0.1", AF_INET);
if (lwresult != ISC_R_SUCCESS)
fatal("add_nameserver failed");
}
if (have_ipv6) {
lwresult = add_nameserver(lwconf, ":1", AF_INET6);
if (lwresult != ISC_R_SUCCESS)
fatal("add_nameserver failed");
}
copy_server_list(lwconf, &server_list);
}
/* Set locale */
(void) setlocale(LC_ALL, "");
#ifdef HAVE_SETLOCALE
/* Set locale */
#endif

#ifdef WITH_IDN_SUPPORT
idn_initialize();
#endif

#ifdef WITH_IDN_OUT_SUPPORT
/* Set domain name -> text post-conversion filter. */
result = dns_name_settotextfilter(output_filter);
check_result(result, "dns_name_settotextfilter");
#endif

if (keyfile[0] != 0)
  setup_file_key();
else if (keysecret[0] != 0)
  setup_text_key();
#ifdef DIG_SIGCHASE
/* Setup the list of messages for +sigchase */
ISC_LIST_INIT(chase_message_list);
ISC_LIST_INIT(chase_message_list2);
dns_name_init(&chase_name, NULL);
#endif
#ifdef DIG_SIGCHASE_TD
  dns_name_init(&chase_current_name, NULL);
dns_name_init(&chase_authority_name, NULL);
#endif
#ifdef DIG_SIGCHASE_BU
  dns_name_init(&chase_signame, NULL);
#endif

result = isc_entropy_getdata(entp, cookie_secret,
  sizeof(cookie_secret), NULL, 0);
if (result != ISC_R_SUCCESS)
fatal("unable to generate cookie secret");
}

/*%
* Override the search list derived from resolv.conf by 'domain'.
*/
void
set_search_domain(char *domain) {
  dig_searchlist_t *search;

  clear_searchlist();
search = make_searchlist_entry(domain);
ISC_LIST_APPEND(search_list, search, link);
}

/*%
 * Setup the ISC and DNS libraries for use by the system.
 */
void
setup_libs(void) {
isc_result_t result;
isc_logconfig_t *logconfig = NULL;

dbg("setup_libs()");

#ifdef PKCS11CRYPTO
pk11_result_register();
#endif
dns_result_register();

result = isc_net_probeipv4();
if (result == ISC_R_SUCCESS)
have_ipv4 = true;

result = isc_net_probeipv6();
if (result == ISC_R_SUCCESS)
have_ipv6 = true;
if (!have_ipv6 && !have_ipv4)
fatal("can't find either v4 or v6 networking");

result = isc_mem_create(0, 0, &mctx);
check_result(result, "isc_mem_create");
isc_mem_setname(mctx, "dig", NULL);

result = isc_log_create(mctx, &lctx, &logconfig);
check_result(result, "isc_log_create");
isc_log_setcontext(lctx);
dns_log_init(lctx);
dns_log_setcontext(lctx);

result = isc_log_usechannel(logconfig, "default_debug", NULL, NULL);
check_result(result, "isc_log_usechannel");
isc_log_setdebuglevel(lctx, 0);

result = isc_taskmgr_create(mctx, 1, 0, &taskmgr);
check_result(result, "isc_taskmgr_create");
result = isc_task_create(taskmgr, 0, &global_task);
check_result(result, "isc_task_create");
isc_task_setname(global_task, "dig", NULL);

result = isc_timermgr_create(mctx, &timermgr);
check_result(result, "isc_timermgr_create");

result = isc_socketmgr_create(mctx, &socketmgr);
check_result(result, "isc_socketmgr_create");

result = isc_entropy_create(mctx, &entp);
check_result(result, "isc_entropy_create");

result = dst_lib_init(mctx, entp, 0);
check_result(result, "dst_lib_init");
is_dst_up = true;

result = isc_mempool_create(mctx, COMMSIZE, &commctx);
check_result(result, "isc_mempool_create");
isc_mempool_setname(commctx, "COMMPOOL");
/*
 * 6 and 2 set as reasonable parameters for 3 or 4 nameserver
 * systems.
 */
isc_mempool_setfreemax(commctx, 6);
isc_mempool_setfillcount(commctx, 2);

result = isc_mutex_init(&lookup_lock);
check_result(result, "isc_mutex_init");
}

typedef struct dig_ednsoptname {
    uint32_t code;
    const char *name;
} dig_ednsoptname_t;

dig_ednsoptname_t optnames[] = {
    { 3, "NSID" }, /* RFC 5001 */
    { 5, "DAU" }, /* RFC 6975 */
    { 6, "DHU" }, /* RFC 6975 */
    { 7, "N3U" }, /* RFC 6975 */
    { 8, "ECS" }, /* RFC 7871 */
    { 9, "EXPIRE" }, /* RFC 7314 */
    { 10, "COOKIE" }, /* RFC 7873 */
    { 11, "KEEPALIVE" }, /* RFC 7828 */
    { 12, "PADDING" }, /* RFC 7830 */
    { 12, "PAD" }, /* shorthand */
    { 13, "CHAIN" }, /* RFC 7901 */
}
{ 14, "KEY-TAG" } /* RFC 8145 */
{ 16, "CLIENT-TAG" } /* draft-bellis-dnsop-edns-tags */
{ 17, "SERVER-TAG" } /* draft-bellis-dnsop-edns-tags */
{ 26946, "DEVICEID" } /* Brian Hartvigsen */
};

#define N_EDNS_OPTNAMES (sizeof(optnames) / sizeof(optnames[0]))

void
save_opt(dig_lookup_t *lookup, char *code, char *value) {
    isc_result_t result;
    uint32_t num = 0;
    isc_buffer_t b;
    bool found = false;
    unsigned int i;

    if (lookup->ednsoptscnt >= EDNSOPT_OPTIONS)
        fatal("too many ednsopts");

    for (i = 0; i < N_EDNS_OPTNAMES; i++) {
        if (strcasecmp(code, optnames[i].name) == 0) {
            num = optnames[i].code;
            found = true;
            break;
        }
    }

    if (!found) {
        result = parse_uint(&num, code, 65535, "ednsopt");
        if (result != ISC_R_SUCCESS)
            fatal("bad edns code point: %s", code);
    }

    if (lookup->ednsopts == NULL) {
        cloneopts(lookup, NULL);
    }

    if (lookup->ednsopts[lookup->ednsoptscnt].value != NULL)
        isc_mem_free(mctx, lookup->ednsopts[lookup->ednsoptscnt].value);

    lookup->ednsopts[lookup->ednsoptscnt].code = num;
    lookup->ednsopts[lookup->ednsoptscnt].length = 0;
    lookup->ednsopts[lookup->ednsoptscnt].value = NULL;

    if (value != NULL) {
        char *buf;
        buf = isc_mem_allocate(mctx, strlen(value)/2 + 1);
        if (buf == NULL)
fatal("out of memory");
isc_buffer_init(&b, buf, (unsigned int) strlen(value)/2 + 1);
result = isc_hex_decodestring(value, &b);
check_result(result, "isc_hex_decodestring");
lookup->ednsopts[lookup->ednsoptscnt].value = 
isc_buffer_base(&b);
lookup->ednsopts[lookup->ednsoptscnt].length = 
isc_buffer_usedlength(&b);
}
lookup->ednsoptscnt++;
}

/*%
* Add EDNS0 option record to a message. Currently, the only supported
* options are UDP buffer size, the DO bit, and EDNS options
* (e.g., NSID, COOKIE, client-subnet)
*/
static void
add_opt(dns_message_t *msg, uint16_t udpsize, uint16_t edns,
unsigned int flags, dns_ednsopt_t *opts, size_t count)
{
dns_rdataset_t *rdataset = NULL;
isc_result_t result;

debug("add_opt()");
result = dns_message_buildopt(msg, &rdataset, edns, udpsize, flags,
  opts, count);
check_result(result, "dns_message_buildopt");
result = dns_message_setopt(msg, rdataset);
check_result(result, "dns_message_setopt");
}

/*%
* Add a question section to a message, asking for the specified name,
* type, and class.
*/
static void
add_question(dns_message_t *message, dns_name_t *name,
dns_rdataclass_t rdclass, dns_rdatatype_t rdtype)
{
dns_rdataset_t *rdataset;
isc_result_t result;

debug("add_question()");
rdataset = NULL;
result = dns_message_gettemprdataset(message, &rdataset);
check_result(result, "dns_message_gettemprdataset");
/*%
* Check if we're done with all the queued lookups, which is true iff
* all sockets, sends, and recvs are accounted for (counters == 0),
* and the lookup list is empty.
* If we are done, pass control back out to dighost_shutdown() (which is
* part of dig.c, host.c, or nslookup.c) to either shutdown the system as
* a whole or reseed the lookup list.
*/

static void
check_if_done(void) {
    debug("check_if_done()");
    debug("list %s", ISC_LIST_EMPTY(lookup_list) ? "empty" : "full");
    if (ISC_LIST_EMPTY(lookup_list) && current_lookup == NULL &&
        sendcount == 0) {
        INSIST(sockcount == 0);
        INSIST(reccvcount == 0);
        debug("shutting down");
        dighost_shutdown();
    }
}

/*%
* Clear out a query when we're done with it. WARNING: This routine
* WILL invalidate the query pointer.
*/

static void
clear_query(dig_query_t *query) {
    dig_lookup_t *lookup;

    REQUIRE(query != NULL);

    debug("clear_query(\%p)", query);

    if (query->timer != NULL)
        isc_timer_detach(&query->timer);
    lookup = query->lookup;

    if (lookup->current_query == query)
        lookup->current_query = NULL;
    if (ISC_LINK_LINKED(query, link))
        ISC_LIST_UNLINK(lookup->q, query, link);
    if (ISC_LINK_LINKED(query, clink))
        ISC_LIST_UNLINK(lookup->connecting, query, clink);
if (ISC_LINK_LINKED(&query->recvbuf, link))
ISC_LIST_DEQUEUE(query->recvlist, &query->recvbuf, link);
if (ISC_LINK_LINKED(&query->lengthbuf, link))
ISC_LIST_DEQUEUE(query->lengthlist, &query->lengthbuf, link);
INSIST(query->recvspace != NULL);

if (query->sock != NULL) {
    isc_socket_detach(&query->sock);
    sockcount--;
    debug("sockcount=%d", sockcount);
}
isc_mempool_put(commctx, query->recvspace);
isc_buffer_invalidate(&query->recvbuf);
isc_buffer_invalidate(&query->lengthbuf);
if (query->waiting_senddone)
    query->pending_free = true;
else
    isc_mem_free(mctx, query);
}

/*%
 * Try and clear out a lookup if we're done with it. Return true if 
 * the lookup was successfully cleared. If true is returned, the 
 * lookup pointer has been invalidated. 
 */
static bool
try_clear_lookup(dig_lookup_t *lookup) {
    dig_query_t *q;

    REQUIRE(lookup != NULL);
    debug("try_clear_lookup(%p)", lookup);

    if (ISC_LIST_HEAD(lookup->q) != NULL ||
        ISC_LIST_HEAD(lookup->connecting) != NULL)
    }
    if (debugging) {
        q = ISC_LIST_HEAD(lookup->q);
        while (q != NULL) {
            debug("query to %s still pending", q->servname);
            q = ISC_LIST_NEXT(q, link);
        }
        q = ISC_LIST_HEAD(lookup->connecting);
        while (q != NULL) {
            debug("query to %s still connecting", q->servname);
            q = ISC_LIST_NEXT(q, link);
        }
    }
q->servname);
q = ISC_LIST_NEXT(q, clink);
}
}
return (false);
}

/*
 * At this point, we know there are no queries on the lookup,
 * so can make it go away also.
 */
destroy_lookup(lookup);
return (true);
}

void
destroy_lookup(dig_lookup_t *lookup) {
    dig_server_t *s;
    void *ptr;

debug("destroy");
s = ISC_LIST_HEAD(lookup->my_server_list);
while (s != NULL) {
    debug("freeing server %p belonging to %p", s, lookup);
    ptr = s;
    s = ISC_LIST_NEXT(s, link);
    ISC_LIST_DEQUEUE(lookup->my_server_list,
        (dig_server_t *)ptr, link);
    isc_mem_free(mctx, ptr);
    }
    if (lookup->sendmsg != NULL)
        dns_message_destroy(&lookup->sendmsg);
    if (lookup->querysig != NULL) {
        debug("freeing buffer %p", lookup->querysig);
        isc_buffer_free(&lookup->querysig);
    }
    if (lookup->sendspace != NULL)
        isc_mempool_put(commctx, lookup->sendspace);
    if (lookup->tsigctx != NULL)
        dst_context_destroy(&lookup->tsigctx);
    if (lookup->ecs_addr != NULL)
        isc_mem_free(mctx, lookup->ecs_addr);
    if (lookup->ednsopts != NULL) {
        size_t i;
        for (i = 0; i < EDNSOPT_OPTIONS; i++) {
if (lookup->ednsopts[i].value != NULL)
    isc_mem_free(mctx, lookup->ednsopts[i].value);
}
isc_mem_free(mctx, lookup->ednsopts);
}
isc_mem_free(mctx, lookup);
}

/*@%
* If we can, start the next lookup in the queue running.
* This assumes that the lookup on the head of the queue hasn't been
* started yet. It also removes the lookup from the head of the queue,
* setting the current_lookup pointer pointing to it.
*/
void
start_lookup(void) {
    debug("start_lookup()");
    if (cancel_now)
        return;

    /*
    * If there's a current lookup running, we really shouldn't get
    * here.
    */
    INSIST(current_lookup == NULL);

    current_lookup = ISC_LIST_HEAD(lookup_list);
    /*
    * Put the current lookup somewhere so cancel_all can find it
    */
    if (current_lookup != NULL) {
        ISC_LIST_DEQUEUE(lookup_list, current_lookup, link);
        #if DIG_SIGCHASE_TD
            if (current_lookup->do_topdown &&
                !current_lookup->rdtype_sigchaseset) {
                dst_key_t *dstkey = NULL;
                isc_buffer_t *b = NULL;
                isc_region_t r;
                isc_result_t result;
                dns_name_t query_name;
                dns_name_t *key_name;
                int i;

                result = get_trusted_key();
                if (result != ISC_R_SUCCESS) {
                    printf("\n; No trusted key, "+
                            "+sigchase option is disabled\n");
                        
                        // Other code...
                    }
        }
    }
}
current_lookup->sigchase = false;
goto novalidation;
}
dns_name_init(&query_name, NULL);
nameFromString(current_lookup->textname, &query_name);

for (i = 0; i < tk_list.nb_tk; i++) {
    key_name = dst_key_name(tk_list.key[i]);

    if (dns_name_issubdomain(&query_name,
        key_name) == true)
        dstkey = tk_list.key[i];

    // Verify temp is really the lowest
    // WARNING
    */
}
if (dstkey == NULL) {
    printf("\n.; The queried zone: ");
    dns_name_print(&query_name, stdout);
    printf(" isn't a subdomain of any Trusted Keys" 
        ");
    +sigchase option is disable\n");
current_lookup->sigchase = false;
free_name(&query_name);
goto novalidation;
}
free_name(&query_name);

current_lookup->rdtype_sigchase = current_lookup->rdtype;
current_lookup->rdtype_sigchaseset = current_lookup->rdtypeset;
current_lookup->rdtype = dns_rdatatype_ns;
current_lookup->qrdtype_sigchase = current_lookup->qrdtype;
current_lookup->qrdtype = dns_rdatatype_ns;
current_lookup->rdclass_sigchase = current_lookup->rdclass;
current_lookup->rdclass_sigchaseset = current_lookup->rdclassset;
current_lookup->rdclass = dns_rdataclass_in;
strlcpy(current_lookup->textnamesigchase,
current_lookup->textname, MXNAME);
current_lookup->trace_root_sigchase = true;
result = isc_buffer_allocate(mctx, &b, BUFSIZE);
check_result(result, "isc_buffer_allocate");
result = dns_name_totext(dst_key_name(dstkey), false, b);
check_result(result, "dns_name_totext");
isc_buffer_usedregion(b, &r);
r.base[r.length] = '\0';
strlcpy(current_lookup->textname, (char*)r.base,
MXNAME);
isc_buffer_free(&b);

nameFromString(current_lookup->textnamesigchase,
               &chase_name);

dns_name_init(&chase_authority_name, NULL);
}
#endif
if (setup_lookup(current_lookup))
do_lookup(current_lookup);
else if (next_origin(current_lookup))
check_next_lookup(current_lookup);
} else {
check_if_done();
}
}

/*%
 * If we can, clear the current lookup and start the next one running.
 * This calls try_clear_lookup, so may invalidate the lookup pointer.
 */
static void
check_next_lookup(dig_lookup_t *lookup) {
    INSIST(!free_now);

dbg("check_next_lookup(%p)", lookup);

if (ISC_LIST_HEAD(lookup->q) != NULL) {
    dbg("still have a worker");
    return;
} else if (try_clear_lookup(lookup)) {
    current_lookup = NULL;
    start_lookup();
}
}
/*
* Create and queue a new lookup as a followup to the current lookup,
* based on the supplied message and section. This is used in trace and
* name server search modes to start a new lookup using servers from
* NS records in a reply. Returns the number of followup lookups made.
*/

static int
followup_lookup(dns_message_t *msg, dig_query_t *query, dns_section_t section)
{
    dig_lookup_t *lookup = NULL;
    dig_server_t *srv = NULL;
    dns_rdataset_t *rdataset = NULL;
    dns_rdata_t rdata = DNS_RDATA_INIT;
    dns_name_t *name = NULL;
    isc_result_t result;
    bool success = false;
    int numLookups = 0;
    int num;
    isc_result_t lresult, addresses_result;
    char bad_namestr[DNS_NAME_FORMATSIZE];
    dns_name_t *domain;
    bool horizontal = false, bad = false;

    INSIST(!free_now);

    debug("following up %s", query->lookup->textname);

    addresses_result = ISC_R_SUCCESS;
    bad_namestr[0] = '\0';
    for (result = dns_message_firstname(msg, section);
        result == ISC_R_SUCCESS;
        result = dns_message_nextname(msg, section)) {
        name = NULL;
        dns_message_currentname(msg, section, &name);
        if (section == DNS_SECTION_AUTHORITY) {
            rdataset = NULL;
            result = dns_message_findtype(name, dns_rdatatype_soa,
                0, &rdataset);
            if (result == ISC_R_SUCCESS)
                return (0);
        }
        rdataset = NULL;
        result = dns_message_findtype(name, dns_rdatatype_ns, 0,
            &rdataset);
        if (result != ISC_R_SUCCESS)
            continue;
debug("found NS set");

if (query->lookup->trace && !query->lookup->trace_root) {
dns_namereln_t namereln;
unsigned int nlabels;
int order;

domain = dns_fixedname_name(&query->lookup->fdomain);
namereln = dns_name_fullcompare(name, domain, &order, &nlabels);
if (namereln == dns_namereln_equal) {
if (!horizontal)
    printf(";; BAD (HORIZONTAL) REFERRAL\n");
horizontal = true;
} else if (namereln != dns_namereln_subdomain) {
if (!bad)
    printf(";; BAD REFERRAL\n");
    bad = true;
    continue;
}
}

for (result = dns_rdataset_first(rdataset);
    result == ISC_R_SUCCESS;
    result = dns_rdataset_next(rdataset)) {
    char namestr[DNS_NAME_FORMATSIZE];
    dns_rdata_ns_t ns;

    if (query->lookup->trace_root &&
        query->lookup->nsfound >= MXSERV)
        break;

    dns_rdataset_current(rdataset, &rdata);

    query->lookup->nsfound++;
    result = dns_rdata_tostruct(&rdata, &ns, NULL);
    check_result(result, "dns_rdata_tostruct");
    dns_name_format(&ns.name, namestr, sizeof(namestr));
    dns_rdata_freestruct(&ns);

    /* Initialize lookup if we've not yet */
    debug("found NS %s", namestr);
    if (!success) {
        success = true;
        lookup_counter++;
        lookup = requeue_lookup(query->lookup,
            false);
cancel_lookup(query->lookup);
lookup->doing_xfr = false;
if (!lookup->trace_root &&
    section == DNS_SECTION_ANSWER)
lookup->trace = false;
else
lookup->trace = query->lookup->trace;
lookup->ns_search_only =
query->lookup->ns_search_only;
lookup->trace_root = false;
if (lookup->ns_search_only)
lookup->recurse = false;
domain = dns_fixedname_name(&lookup->fdomain);
dns_name_copy(name, domain, NULL);
}
dbg("adding server \%s", namestr);
num = getaddresses(lookup, namestr, &result);
if (result != ISC_R_SUCCESS) {
    printf("couldn't get address for \%s: \%s\n",
            namestr, isc_result_totext(result));
    if (addresses_result == ISC_R_SUCCESS) {
        addresses_result = result;
        strlcpy(bad_namestr, namestr,
                sizeof(bad_namestr));
    }
}
numLookups += num;
dns_rdata_reset(&rdata);
ISC_LIST_INIT(my_server_list);

i = numLookups;
for (srv = ISC_LIST_HEAD(lookup->my_server_list);
     srv != NULL;
     srv = ISC_LIST_HEAD(lookup->my_server_list)) {
    INSIST(i > 0);
    isc_random_get(&j);
    j %= i;
    next = ISC_LIST_NEXT(srv, link);
    while (j-- > 0 && next != NULL) {
        srv = next;
        next = ISC_LIST_NEXT(srv, link);
    }
    ISC_LIST_DEQUEUE(lookup->my_server_list, srv, link);
    ISC_LIST_APPEND(my_server_list, srv, link);
    i--;
}
ISC_LIST_APPENDLIST(lookup->my_server_list,
                     my_server_list, link);

return (numLookups);
}

/*%
* Create and queue a new lookup using the next origin from the search
* list, read in setup_system().
*
* Return true iff there was another searchlist entry.
*/
static bool
next_origin(dig_lookup_t *oldlookup) {
    dig_lookup_t *newlookup;
    dig_searchlist_t *search;
    dns_fixedname_t fixed;
    dns_name_t *name;
    isc_result_t result;

    INSIST(!free_now);

    debug("next_origin()");
    debug("following up %s", oldlookup->textname);

    if (!usessearch)
        /*
         * We're not using a search list, so don't even think
         * about finding the next entry.
         */
    }
return (false);

/*
 * Check for a absolute name or ndots being met.
 */
name = dns_fixedname_initname(&fixed);
result = dns_name_fromstring2(name, oldlookup->textname, NULL,
    0, NULL);
if (result == ISC_R_SUCCESS &&
    (dns_name_isabsolute(name) ||
    (int)dns_name_countlabels(name) > ndots))
return (false);

if (oldlookup->origin == NULL && !oldlookup->need_search)
/*
 * Then we just did rootorg; there's nothing left.
 */
return (false);

if (oldlookup->origin == NULL && oldlookup->need_search) {
    newlookup = requeue_lookup(oldlookup, true);
    newlookup->origin = ISC_LIST_HEAD(search_list);
    newlookup->need_search = false;
} else {
    search = ISC_LIST_NEXT(oldlookup->origin, link);
    if (search == NULL && oldlookup->done_as_is)
return (false);
    newlookup = requeue_lookup(oldlookup, true);
    newlookup->origin = search;
}
cancel_lookup(oldlookup);
return (true);
}

/*
 * Insert an SOA record into the sendmessage in a lookup. Used for
 * creating IXFR queries.
 */
static void
insert_soa(dig_lookup_t *lookup) {
    isc_result_t result;
    dns_rdata_soa_t soa;
    dns_rdata_t *rdata = NULL;
    dns_rdatalist_t *rdatalist = NULL;
    dns_rdataset_t *rdataset = NULL;
    dns_name_t *soaname = NULL;

debug("insert_soa()");

soa.mctx = mctx;
soa.serial = lookup->ixfr_serial;
soa.refresh = 0;
soa.retry = 0;
soa.expire = 0;
soa.minimum = 0;
soa.common.rdclass = lookup->rdclass;
soa.common.rdtype = dns_rdatatype_soa;

dns_name_init(&soa.origin, NULL);
dns_name_init(&soa.contact, NULL);

dns_name_clone(dns_rootname, &soa.origin);
dns_name_clone(dns_rootname, &soa.contact);

isc_buffer_init(&lookup->rdatabuf, lookup->rdatastore, sizeof(lookup->rdatastore));

result = dns_message_gettemprdata(lookup->sendmsg, &rdata);
check_result(result, "dns_message_gettemprdata");

result = dns_rdata_fromstruct(rdata, lookup->rdclass, dns_rdatatype_soa, &soa, &lookup->rdatabuf);
check_result(result, "isc_rdata_fromstruct");

result = dns_message_gettemprdatalist(lookup->sendmsg, &rdatalist);
check_result(result, "dns_message_gettemprdatalist");

result = dns_message_gettemprdataset(lookup->sendmsg, &rdataset);
check_result(result, "dns_message_gettemprdataset");

dns_rdatalist_init(rdatalist);
rdatalist->type = dns_rdatatype_soa;
rdatalist->rdclass = lookup->rdclass;
ISC_LIST_APPEND(rdatalist->rdata, rdata, link);

dns_rdatalist_tordataset(rdatalist, rdataset);

result = dns_message_gettempname(lookup->sendmsg, &soaname);
check_result(result, "dns_message_gettempname");
dns_name_init(soaname, NULL);
dns_name_clone(lookup->name, soaname);
ISC_LIST_INIT(soaname->list);
ISC_LIST_APPEND(soaname->list, rdataset, link);
dns_message_addname(lookup->sendmsg, soaname, DNS_SECTION_AUTHORITY);
}
static void
compute_cookie(unsigned char *clientcookie, size_t len) {
    /* XXXMPA need to fix, should be per server. */
    INSIST(len >= 8U);
    memmove(clientcookie, cookie_secret, 8);
}

/*%
 * Setup the supplied lookup structure, making it ready to start sending
 * queries to servers. Create and initialize the message to be sent as
 * well as the query structures and buffer space for the replies. If the
 * server list is empty, clone it from the system default list.
 */

bool
setup_lookup(dig_lookup_t *lookup) {
    isc_result_t result;
    uint32_t id;
    unsigned int len;
    dig_server_t *serv;
    dig_query_t *query;
    isc_buffer_t b;
    dns_compress_t cctx;
    char store[MXNAME];
    char ecsbuf[20];
    char cookiebuf[256];
    char *origin = NULL;
    char *textname = NULL;
    #ifdef WITH_IDN_SUPPORT
    char idn_origin[MXNAME], idn_textname[MXNAME];
    #endif

    #ifdef WITH_IDN_OUT_SUPPORT
    result = dns_name_settotextfilter(lookup->idnout ?
        output_filter : NULL);
    check_result(result, "dns_name_settotextfilter");
    #endif

    REQUIRE(lookup != NULL);
    INSIST(!free_now);
    debug("setup_lookup(%p)", lookup);

    result = dns_message_create(mctx, DNS_MESSAGE_INTENTRENDER,
        &lookup->sendmsg);
    check_result(result, "dns_message_create");

    if (lookup->new_search) {
        debug("resetting lookup counter.");
    }
lookup_counter = 0;

if (ISC_LIST_EMPTY(lookup->my_server_list)) {
    debug("cloning server list");
    clone_server_list(server_list, &lookup->my_server_list);
}
result = dns_message_gettempname(lookup->sendmsg, &lookup->name);
check_result(result, "dns_message_gettempname");
dns_name_init(lookup->name, NULL);

isc_buffer_init(&lookup->namebuf, lookup->name_space, sizeof(lookup->name_space));
isc_buffer_init(&lookup->onamebuf, lookup->oname_space, sizeof(lookup->oname_space));

/*
 * We cannot convert 'textname' and 'origin' separately.
 * 'textname' doesn't contain TLD, but local mapping needs
 * TLD.
 */
textname = lookup->textname;
#ifdef WITH_IDN_SUPPORT
    if (lookup->idnin) {
        result = idn_locale_to_ace(textname, idn_textname, sizeof(idn_textname));
        check_result(result, "convert textname to IDN encoding");
        debug("idn_textname: %s", idn_textname);
        textname = idn_textname;
    }
#endif

/*
 * If the name has too many dots, force the origin to be NULL
 * (which produces an absolute lookup). Otherwise, take the origin
 * we have if there's one in the struct already. If it's NULL,
 * take the first entry in the searchlist iff either usesearch
 * is TRUE or we got a domain line in the resolv.conf file.
 */
if (lookup->new_search) {
    if ((count_dots(textname) >= ndots) || !usesearch)
        lookup->origin = NULL; /* Force abs lookup */
    lookup->done_as_is = true;
    lookup->need_search = usesearch;
} else if (lookup->origin == NULL && usesearch) {
    lookup->origin = ISC_LIST_HEAD(search_list);
    lookup->need_search = false;
}
if (lookup->origin != NULL) {
    debug("trying origin %s", lookup->origin->origin);
    result = dns_message_gettempname(lookup->sendmsg, &lookup->oname);
    check_result(result, "dns_message_gettempname");
    dns_name_init(lookup->oname, NULL);
    /* XXX Helper funct to conv char* to name? */
    origin = lookup->origin->origin;
    #ifdef WITH_IDN_SUPPORT
    if (lookup->idnin) {
        result = idn_locale_to_ace(origin, idn_origin, sizeof(idn_origin));
        check_result(result, "convert origin to IDN encoding");
        debug("trying idn origin %s", idn_origin);
        origin = idn_origin;
    }
    #endif
    len = (unsigned int) strlen(origin);
    isc_buffer_init(&b, origin, len);
    isc_buffer_add(&b, len);
    result = dns_name_fromtext(lookup->oname, &b, dns_rootname, 0, &lookup->onamebuf);
    if (result != ISC_R_SUCCESS) {
        dns_message_puttempname(lookup->sendmsg, &lookup->name);
        dns_message_puttempname(lookup->sendmsg, &lookup->oname);
        fatal("'%s' is not in legal name syntax (%s)", origin, isc_result_totext(result));
    }
    if (lookup->trace && lookup->trace_root) {
        dns_name_clone(dns_rootname, lookup->name);
    } else {
        dns_fixedname_t fixed;
        dns_name_t *name;
        name = dns_fixedname_initname(&fixed);
        len = (unsigned int) strlen(textname);
        isc_buffer_init(&b, textname, len);
        isc_buffer_add(&b, len);
        result = dns_name_fromtext(name, &b, NULL, 0, NULL);
        if (result == ISC_R_SUCCESS && !dns_name_isabsolute(name)) {
            lookup->oname = name;
        }
    }
}
&lookup->namebuf);
else if (result == ISC_R_SUCCESS)
result = dns_name_copy(name, lookup->name,
&lookup->namebuf);
if (result != ISC_R_SUCCESS) {
  dns_message_puttempname(lookup->sendmsg,
&lookup->name);
  dns_message_puttempname(lookup->sendmsg,
&lookup->oname);
  if (result == DNS_R_NAMETOOLONG)
    return (false);
  fatal("%s' is not in legal name syntax (%s)",
    lookup->textname,
    isc_result_totext(result));
}
}
dns_message_puttempname(lookup->sendmsg, &lookup->oname);
} else {
  debug("using root origin");
  if (lookup->trace && lookup->trace_root)
    dns_name_clone(dns_rootname, lookup->name);
  else {
    len = (unsigned int) strlen(textname);
    isc_buffer_init(&b, textname, len);
    isc_buffer_add(&b, len);
    result = dns_name_fromtext(lookup->name, &b,
      dns_rootname, 0,
      &lookup->namebuf);
  }
  if (result != ISC_R_SUCCESS) {
    dns_message_puttempname(lookup->sendmsg,
&lookup->name);
    fatal("%s' is not a legal name 
" 
"("%s"), lookup->textname,
    isc_result_totext(result));
  }
}
dns_name_format(lookup->name, store, sizeof(store));
dighost_trying(store, lookup);
INSIST(dns_name_isabsolute(lookup->name));
isc_random_get(&id);
lookup->sendmsg->id = (unsigned short)id & 0xFFFF;
lookup->sendmsg->opcode = lookup->opcode;
lookup->msgcounter = 0;

/*
 * If this is a trace request, completely disallow recursion after
* looking up the root name servers, since it's meaningless for traces.
*/
if ((lookup->trace || lookup->ns_search_only) && !lookup->trace_root) {
    lookup->recurse = false;
}

if (lookup->recurse &&
    lookup->rdtype != dns_rdatatype_axfr &&
    lookup->rdtype != dns_rdatatype_ixfr) {
    debug("recursive query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_RD;
}

/* XXX aflag */
if (lookup->aonly) {
    debug("AA query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_AA;
}
if (lookup->adflag) {
    debug("AD query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_AD;
}
if (lookup->cdflag) {
    debug("CD query");
    lookup->sendmsg->flags |= DNS_MESSAGEFLAG_CD;
}
if (lookup->zflag) {
    debug("Z query");
    lookup->sendmsg->flags |= 0x0040U;
}
dns_message_addname(lookup->sendmsg, lookup->name,
                    DNS_SECTION_QUESTION);

if (lookup->trace && lookup->trace_root) {
    lookup->qrdtype = lookup->rdtype;
    lookup->rdtype = dns_rdatatype_ns;
}

if ((lookup->rdtype == dns_rdatatype_axfr) ||
    (lookup->rdtype == dns_rdatatype_ixfr)) {
    /*
    * Force TCP mode if we're doing an axfr.
    */
    if (lookup->rdtype == dns_rdatatype_axfr) {

lookup->doing_xfr = true;
lookup->tcp_mode = true;
} else if (lookup->tcp_mode) {
lookup->doing_xfr = true;
}
}

if (!lookup->header_only)
add_question(lookup->sendmsg, lookup->name, lookup->rdclass,
lookup->rdtype);

/* add soa */
if (lookup->rdtype == dns_rdatatype_ixfr)
insert_soa(lookup);

/* XXX Insist this? */
lookup->tsigctx = NULL;
lookup->querysig = NULL;
if (tsigkey != NULL) {
debug("initializing keys");
result = dns_message_settsigkey(lookup->sendmsg, tsigkey);
check_result(result, "dns_message_settsigkey");
}

lookup->sendspace = isc_mempool_get(commctx);
if (lookup->sendspace == NULL)
fatal("memory allocation failure");

result = dns_compress_init(&cctx, -1, mctx);
check_result(result, "dns_compress_init");

default("starting to render the message");
isc_buffer_init(&lookup->renderbuf, lookup->sendspace, COMMSIZE);
result = dns_message_renderbegin(lookup->sendmsg, &cctx,
&lookup->renderbuf);
check_result(result, "dns_message_renderbegin");
if (lookup->udpsize > 0 || lookup->dnssec ||
lookup->edns > -1 || lookup->ecs_addr != NULL)
{
#define MAXOPTS (EDNSOPT_OPTIONS + DNS_EDNSOPTIONS)
dns_ednsopt_t opts[MAXOPTS];
unsigned int flags;
unsigned int i = 0;

if (lookup->udpsize == 0)
lookup->udpsize = 4096;
if (lookup->edns < 0)
lookup->edns = 0;
if (lookup->nsid) {
    INSIST(i < MAXOPTS);
    opts[i].code = DNS_OPT_NSID;
    opts[i].length = 0;
    opts[i].value = NULL;
    i++;
}

if (lookup->ecs_addr != NULL) {
    uint8_t addr[16];
    uint16_t family = 0;
    uint32_t plen;
    struct sockaddr *sa;
    struct sockaddr_in *sin;
    struct sockaddr_in6 *sin6;
    size_t addrl;
    sa = &lookup->ecs_addr->type.sa;
    plen = lookup->ecs_addr->length;
    /* Round up prefix len to a multiple of 8 */
    addrl = (plen + 7) / 8;

    INSIST(i < MAXOPTS);
    opts[i].code = DNS_OPT_CLIENT_SUBNET;
    opts[i].length = (uint16_t) addrl + 4;
    check_result(result, "isc_buffer_allocate");

/* XXXMKUS: According to RFC7871, "If there is
 * no ADDRESS set, i.e., SOURCE PREFIX-LENGTH is
 * set to 0, then FAMILY SHOULD be set to the
 * transport over which the query is sent."
 * However, at this point we don't know what
 * transport(s) we'll be using, so we can't
 * set the value now. For now, we're using
 * IPv4 as the default the +subnet option
 * used an IPv4 prefix, or for +subnet=0,
 * and IPv6 if the +subnet option used an
 * IPv6 prefix.
 * (For future work: preserve the offset into
 * the buffer where the family field is;
 * that way we can update it in send_udp()
 * or send_tcp_connect() once we know
 * what it ought to be.)
switch (sa->sa_family) {
    case AF_UNSPEC:
        INSIST(plen == 0);
        family = 1;
        break;
    case AF_INET:
        INSIST(plen <= 32);
        family = 1;
        sin = (struct sockaddr_in *) sa;
        memmove(addr, &sin->sin_addr, addrl);
        break;
    case AF_INET6:
        INSIST(plen <= 128);
        family = 2;
        sin6 = (struct sockaddr_in6 *) sa;
        memmove(addr, &sin6->sin6_addr, addrl);
        break;
    default:
        INSIST(0);
        ISC_UNREACHABLE();
        break;
}
isc_buffer_init(&b, ecsbuf, sizeof(ecsbuf));

    /* family */
    isc_buffer_putuint16(&b, family);
    /* source prefix-length */
    isc_buffer_putuint8(&b, plen);
    /* scope prefix-length */
    isc_buffer_putuint8(&b, 0);

    /* address */
    if (addrl > 0) {
        /* Mask off last address byte */
        if ( (plen % 8) != 0)
            addr[addrl - 1] &= ~0U << (8 - (plen % 8));
        isc_buffer_putmem(&b, addr,
                          (unsigned)addrl);
    }

    opts[i].value = (uint8_t *) ecsbuf;
    i++;
}

if (lookup->sendcookie) {
    INSIST(i < MAXOPTS);
    opts[i].code = DNS_OPT_COOKIE;
}
if (lookup->cookie != NULL) {
  isc_buffer_init(&b, cookiebuf, sizeof(cookiebuf));
  result = isc_hex_decodestring(lookup->cookie, &b);
  check_result(result, "isc_hex_decodestring");
  opts[i].value = isc_buffer_base(&b);
  opts[i].length = isc_buffer_usedlength(&b);
} else {
  compute_cookie(cookie, sizeof(cookie));
  opts[i].length = 8;
  opts[i].value = cookie;
}
  i++;
}

if (lookup->expire) {
  INSIST(i < MAXOPTS);
  opts[i].code = DNS_OPT_EXPIRE;
  opts[i].length = 0;
  opts[i].value = NULL;
  i++;
}

if (lookup->ednsoptscnt != 0) {
  INSIST(i + lookup->ednsoptscnt <= MAXOPTS);
  memmove(&opts[i], lookup->ednsopts, sizeof(dns_ednsopt_t) * lookup->ednsoptscnt);
  i += lookup->ednsoptscnt;
}

flags = lookup->ednsflags;
flags &= ~DNS_MESSAGEEXTFLAG_DO;
if (lookup->dnssec)
  flags |= DNS_MESSAGEEXTFLAG_DO;
add_opt(lookup->sendmsg, lookup->udpsize, lookup->edns, flags, opts, i);
}

result = dns_message_rendersection(lookup->sendmsg, DNS_SECTION_QUESTION, 0);
check_result(result, "dns_message_rendersection");
result = dns_message_rendersection(lookup->sendmsg, DNS_SECTION_AUTHORITY, 0);
check_result(result, "dns_message_rendersection");
result = dns_message_renderend(lookup->sendmsg);
check_result(result, "dns_message_renderend");
debug("done rendering");
dns_compress_invalidate(&cctx);

/*
 * Force TCP mode if the request is larger than 512 bytes.
 */
if (isc_buffer_usedlength(&lookup->renderbuf) > 512)
lookup->tcp_mode = true;

lookup->pending = false;

for (serv = ISC_LIST_HEAD(lookup->my_server_list);
    serv != NULL;
    serv = ISC_LIST_NEXT(serv, link)) {
    query = isc_mem_allocate(mctx, sizeof(dig_query_t));
    if (query == NULL)
fatal("memory allocation failure in %s:%d",
   __FILE__, __LINE__);
    debug("create query %p linked to lookup %p",
      query, lookup);
    query->lookup = lookup;
    query->timer = NULL;
    query->waiting_connect = false;
    query->waiting_senddone = false;
    query->pending_free = false;
    query->recv_made = false;
    query->first_pass = true;
    query->first_soa_rcvd = false;
    query->second_rr_rcvd = false;
    query->first_repeat_rcvd = false;
    query->warn_id = true;
    query->timedout = false;
    query->first_rr_serial = 0;
    query->second_rr_serial = 0;
    query->servname = serv->servername;
    query->userarg = serv->userarg;
    query->rr_count = 0;
    query->msg_count = 0;
    query->byte_count = 0;
    query->ixfr_axfr = false;
    ISC_LIST_INIT(query->recvlist);
    ISC_LIST_INIT(query->lengthlist);
    query->sock = NULL;
    query->recvspace = isc_mempool_get(commctx);
    if (query->recvspace == NULL)
fatal("memory allocation failure");

    isc_buffer_init(&query->recvbuf, query->recvspace, COMMSIZE);
isc_buffer_init(&query->lengthbuf, query->lengthspace, 2);
isc_buffer_init(&query->slbuf, query->slspace, 2);
query->sendbuf = lookup->renderbuf;

ISC_LINK_INIT(query, clink);
ISC_LINK_INIT(query, link);
ISC_LIST_ENQUEUE(lookup->q, query, link);

/* XXX qrflag, print_query, etc... */
if (!ISC_LIST_EMPTY(lookup->q) && qr) {
    extradbytes = 0;
dighost_printmessage(ISC_LIST_HEAD(lookup->q), lookup->sendmsg,
    true);
    if (lookup->stats)
        printf(";; QUERY SIZE: %u\n\n",
            isc_buffer_usedlength(&lookup->renderbuf));
}
return (true);

/*%*/
/*%*/
* Event handler for send completion.  Track send counter, and clear out
* the query if the send was canceled.
*/
static void
send_done(isc_task_t *task, isc_event_t *event) {
    isc_socketevent_t *sevent = (isc_socketevent_t *)event;
    isc_buffer_t *b = NULL;
dig_query_t *query, *next;
dig_lookup_t *l;
REQUIRE(event->ev_type == ISC_SOCKEVENT_SENDDONE);
UNUSED(_task);
LOCK_LOOKUP;

dbuf("send_done()");
sendcount--;
dbbuf("sendcount=%d", sendcount);
INSIST(sendcount >= 0);

for (b = ISC_LIST_HEAD(sevent->bufferlist);
    b != NULL;
    b = ISC_LIST_HEAD(sevent->bufferlist)) {
    ISC_LIST_DEQUEUE(sevent->bufferlist, b, link);
    isc_mem_free(mctx, b);
query = event->ev_arg;
query->waiting_senddone = false;
l = query->lookup;

if (l->ns_search_only && !l->trace_root && !l->tcp_mode) {
    debug("sending next, since searching");
    next = ISC_LIST_NEXT(query, link);
    if (next != NULL)
        send_udp(next);
}

isc_event_free(&event);

if (query->pending_free)
    isc_mem_free(mctx, query);

check_if_done();
UNLOCK_LOOKUP;
}

/*%
 * Cancel a lookup, sending isc_socket_cancel() requests to all outstanding
 * IO sockets. The cancel handlers should take care of cleaning up the
 * query and lookup structures
 */
static void
cancel_lookup(dig_lookup_t *lookup) {
    dig_query_t *query, *next;

define("cancel_lookup()");
query = ISC_LIST_HEAD(lookup->q);
while (query != NULL) {
    next = ISC_LIST_NEXT(query, link);
    if (query->sock != NULL) {
        isc_socket_cancel(query->sock, global_task,
                          ISC_SOCKCANCEL_ALL);
        check_if_done();
    } else {
        clear_query(query);
    }
    query = next;
}
lookup->pending = false;
lookup->retries = 0;
static void
bringup_timer(dig_query_t *query, unsigned int default_timeout) {
    dig_lookup_t *l;
    unsigned int local_timeout;
    isc_result_t result;

    debug("bringup_timer()");
    /*
     * If the timer already exists, that means we're calling this
     * a second time (for a retry). Don't need to recreate it,
     * just reset it.
     */
    l = query->lookup;
    if (ISC_LINK_LINKED(query, link) && ISC_LIST_NEXT(query, link) != NULL)
        local_timeout = SERVER_TIMEOUT;
    else {
        if (timeout == 0)
            local_timeout = default_timeout;
        else
            local_timeout = timeout;
    }
    debug("have local timeout of %d", local_timeout);
    isc_interval_set(&l->interval, local_timeout, 0);
    if (query->timer != NULL)
        isc_timer_detach(&query->timer);
    result = isc_timer_create(timermgr, isc_timertype_once, NULL,
        &l->interval, global_task, connect_timeout,
        query, &query->timer);
    check_result(result, "isc_timer_create");
}

static void
force_timeout(dig_query_t *query) {
    isc_event_t *event;

    debug("force_timeout ()");
    event = isc_event_allocate(mctx, query, ISC_TIMEREVENT_IDLE,
        connect_timeout, query,
        sizeof(isc_event_t));
    if (event == NULL) {
        fatal("isc_event_allocate: %s",
            isc_result_totext(ISC_R_NOMEMORY));
    }
    isc_task_send(global_task, &event);
    /*
     * The timer may have expired if, for example, get_address() takes
     * long time and the timer was running on a different thread.
     */
* We need to cancel the possible timeout event not to confuse
* ourselves due to the duplicate events.
*/
if (query->timer != NULL)
isc_timer_detach(&query->timer);
}

static void
connect_done(isc_task_t *task, isc_event_t *event);

/*%
* Unlike send_udp, this can't be called multiple times with the same
* query. When we retry TCP, we requeue the whole lookup, which should
* start anew.
*/
static void
send_tcp_connect(dig_query_t *query) {
isc_result_t result;
dig_query_t *next;
dig_lookup_t *l;

design("send_tcp_connect(%p)", query);

l = query->lookup;
query->waiting_connect = true;
query->lookup->current_query = query;
result = get_address(query->servname, port, &query->sockaddr);
if (result != ISC_R_SUCCESS) {
/*
* This servname doesn't have an address. Try the next server
* by triggering an immediate 'timeout' (we lie, but the effect
* is the same).
*/
force_timeout(query);
return;
}

if (!l->mapped && isc_sockaddr_pf(&query->sockaddr) == AF_INET6 &&
IN6_IS_ADDR_V4MAPPED(&query->sockaddr.type.sin6.sin6_addr)) {
isc_netaddr_t netaddr;
char buf[ISC_NETADDR_FORMATSIZE];

isc_netaddr_fromsockaddr(&netaddr, &query->sockaddr);
isc_netaddr_format(&netaddr, buf, sizeof(buf));
printf(";; Skipping mapped address %s\n", buf);
query->waiting_connect = false;
if (ISC_LINK_LINKED(query, link))
next = ISC_LIST_NEXT(query, link);
else
next = NULL;
l = query->lookup;
clear_query(query);
if (next == NULL) {
printf(";; No acceptable nameservers\n");
check_next_lookup(l);
return;
}
send_tcp_connect(next);
return;
}

INSIST(query->sock == NULL);

if (keep != NULL && isc_sockaddr_equal(&keepaddr, &query->sockaddr)) {
sockcount++;
isc_socket_attach(keep, &query->sock);
query->waiting_connect = false;
launch_next_query(query, true);
goto search;
}

result = isc_socket_create(socketmgr,
    isc_sockaddr_pf(&query->sockaddr),
    isc_sockettype_tcp, &query->sock);
check_result(result, "isc_socket_create");
sockcount++;
d debug("sockcount=%d", sockcount);
if (query->lookup->dscp != -1)
    isc_socket_dscp(query->sock, query->lookup->dscp);
    isc_socket_ipv6only(query->sock, !query->lookup->mapped);
if (specified_source)
    result = isc_socket_bind(query->sock, &bind_address, 
    ISC_SOCKET_REUSEADDRESS);
else {
    if ((isc_sockaddr_pf(&query->sockaddr) == AF_INET) &&
        have_ipv4)
        isc_sockaddr_any(&bind_any);
    else
        isc_sockaddr_any6(&bind_any);
    result = isc_socket_bind(query->sock, &bind_any, 0);
} 
check_result(result, "isc_socket_bind");
bringup_timer(query, TCP_TIMEOUT);
result = isc_socket_connect(query->sock, &query->sockaddr,
global_task, connect_done, query);
check_result(result, "isc_socket_connect");
search:
/*
 * If we're at the endgame of a nameserver search, we need to
 * immediately bring up all the queries. Do it here.
 */
if (l->ns_search_only && !l->trace_root) {
  debug("sending next, since searching");
  if (ISC_LINK_LINKED(query, link)) {
    next = ISC_LIST_NEXT(query, link);
    ISC_LIST_DEQUEUE(l->q, query, link);
  } else
    next = NULL;
  ISC_LIST_ENQUEUE(l->connecting, query, clink);
  if (next != NULL)
    send_tcp_connect(next);
}
}

static isc_buffer_t *
clone_buffer(isc_buffer_t *source) {
  isc_buffer_t *buffer;
  buffer = isc_mem_allocate(mctx, sizeof(*buffer));
  if (buffer == NULL)
    fatal("memory allocation failure in %s:%d",
         __FILE__, __LINE__);
  *buffer = *source;
  return (buffer);
}

/*%
 * Send a UDP packet to the remote nameserver, possible starting the
 * recv action as well. Also make sure that the timer is running and
 * is properly reset.
 */
static void
send_udp(dig_query_t *query) {
  dig_lookup_t *l = NULL;
  isc_result_t result;
  isc_buffer_t *sendbuf;
  dig_query_t *next;

  debug("send_udp(%p)", query);

  l = query->lookup;
  bringup_timer(query, UDP_TIMEOUT);
  l->current_query = query;
debug("working on lookup %p, query %p", query->lookup, query);
if (!query->recv_made) {
    /* XXX Check the sense of this, need assertion? */
    query->waiting_connect = false;
    result = get_address(query->servname, port, &query->sockaddr);
    if (result != ISC_R_SUCCESS) {
        /* This servname doesn't have an address. */
        force_timeout(query);
        return;
    }
}

if (!l->mapped &&
    isc_sockaddr_pf(&query->sockaddr) == AF_INET6 &&
    IN6_IS_ADDR_V4MAPPED(&query->sockaddr.type.sin6.sin6_addr)) {
    isc_netaddr_t netaddr;
    char buf[ISC_NETADDR_FORMATSIZE];

    isc_netaddr_fromsockaddr(&netaddr, &query->sockaddr);
    isc_netaddr_format(&netaddr, buf, sizeof(buf));
    printf(";; Skipping mapped address \\
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next = ISC_LIST_NEXT(query, link);
l = query->lookup;
clear_query(query);
if (next == NULL) {
    printf(";; No acceptable nameservers\n");
    check_next_lookup(l);
} else {
    send_udp(next);
}
return;

result = isc_socket_create(socketmgr,
    isc_sockaddr_pf(&query->sockaddr),
    isc_sockettype_udp, &query->sock);
check_result(result, "isc_socket_create");
sockcount++;
debug("sockcount=%d", sockcount);
if (query->lookup->dscp != -1)
    isc_socket_dscp(query->sock, query->lookup->dscp);
    isc_socket_ipv6only(query->sock,
        !query->lookup->mapped);
if (specified_source) {
    result = isc_socket_bind(query->sock, &bind_address,
        ISC_SOCKET_REUSEADDRESS);
} else {
    isc_sockaddr_anyofpf(&bind_any,
isc_sockaddr_pf(&query->sockaddr);
result = isc_socket_bind(query->sock, &bind_any, 0);
}
check_result(result, "isc_socket_bind");

query->recv_made = true;
ISC_LINK_INIT(&query->recvbuf, link);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
debu("recving with lookup=%p, query=%p, sock=%p",
    query->lookup, query, query->sock);
result = isc_socket_recvv(query->sock, &query->recvlist, 1,
    global_task, recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
debu("recvcount=%d", recvcount);
}
ISC_LIST_INIT(query->sendlist);
sendbuf = clone_buffer(&query->sendbuf);
ISC_LIST_ENQUEUE(query->sendlist, sendbuf, link);
debu("sending a request");
TIME_NOW(&query->time_sent);
INSIST(query->sock != NULL);
query->waiting_senddone = true;
result = isc_socket_sendtov2(query->sock, &query->sendlist,
    global_task, send_done, query,
    &query->sockaddr, NULL,
    ISC_SOCKFLAG_NORETRY);
check_result(result, "isc_socket_sendtov");
sendcount++;
}

/**
 * If there are more servers available for querying within 'lookup', initiate a
 * TCP or UDP query to the next available server and return true; otherwise,
 * return false.
 */
static bool
try_next_server(dig_lookup_t *lookup) {
    dig_query_t *current_query, *next_query;

    current_query = lookup->current_query;
    if (current_query == NULL || !ISC_LINK_LINKED(current_query, link)) {
        return (false);
    }
    next_query = ISC_LIST_NEXT(current_query, link);
    if (next_query == NULL) {
return (false);
}

debug("trying next server...");

if (lookup->tcp_mode) {
    send_tcp_connect(next_query);
} else {
    send_udp(next_query);
}

return (true);
}

/*%
* IO timeout handler, used for both connect and recv timeouts. If
* retries are still allowed, either resend the UDP packet or queue a
* new TCP lookup. Otherwise, cancel the lookup.
*/
static void
connect_timeout(isc_task_t *task, isc_event_t *event) {
    dig_lookup_t *l = NULL;
    dig_query_t *query = NULL;
    UNUSED(task);
    REQUIRE(event->ev_type == ISC_TIMEREVENT_IDLE);
    debug("connect_timeout()");
    LOCK_LOOKUP;
    query = event->ev_arg;
    l = query->lookup;
    isc_event_free(&event);
    INSIST(!free_now);
    if (cancel_now) {
        UNLOCK_LOOKUP;
        return;
    }
    if (try_next_server(l)) {
        if (l->tcp_mode) {
            if (query->sock != NULL) {
                isc_socket_cancel(query->sock, NULL,
                    ISC_SOCKCANCEL_ALL);
            } else {
                clear_query(query);
            }
        }
    }
}

/*%
if (l->tcp_mode && query->sock != NULL) {
    query->timedout = true;
    isc_socket_cancel(query->sock, NULL, ISC_SOCKCANCEL_ALL);
}

if (l->retries > 1) {
    if (!l->tcp_mode) {
        l->retries--;
        debug("resending UDP request to first server");
        send_udp(ISC_LIST_HEAD(l->q));
    } else {
        debug("making new TCP request, %d tries left",
            l->retries);
        l->retries--;
        requeue_lookup(l, true);
        cancel_lookup(l);
        check_next_lookup(l);
    }
} else {
    if (!l->ns_search_only) {
        fputs(l->cmdline, stdout);
        printf(";; connection timed out; no servers could be "
            "reached\n");
    }
    cancel_lookup(l);
    check_next_lookup(l);
    if (exitcode < 9)
        exitcode = 9;
}
dig_lookup_t *l, *n;
uint16_t length;

REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
INSIST(!free_now);

UNUSED(task);

dbg("tcp_length_done()");

LOCK_LOOKUP;
sevent = (isc_socketevent_t *)event;
query = event->ev_arg;

recvcount--;
INSIST(recvcount >= 0);

b = ISC_LIST_HEAD(sevent->bufferlist);
INSIST(b == &query->lengthbuf);
ISC_LIST_DEQUEUE(sevent->bufferlist, b, link);

if (sevent->result == ISC_R_CANCELED) {
  isc_event_free(&event);
  l = query->lookup;
  clear_query(query);
  check_next_lookup(l);
  UNLOCK_LOOKUP;
  return;
}
if (sevent->result != ISC_R_SUCCESS) {
  char sockstr[ISC_SOCKADDR_FORMATSIZE];
  isc_sockaddr_format(&query->sockaddr, sockstr,
                      sizeof(sockstr));
  printf(";; communications error to %s: %s\n",
         sockstr, isc_result_totext(sevent->result));
  if (keep != NULL)
    isc_socket_detach(&keep);
  isc_socket_detach(&query->sock);
  sockcount--;
  dbg("sockcount=%d", sockcount);
  INSIST(sockcount >= 0);
  if (sevent->result == ISC_R_EOF && l->eoferr == 0U) {
    n = requeue_lookup(l, true);
    n->eoferr++;
  }
  isc_event_free(&event);
  clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
length = isc_buffer_getuint16(b);
if (length == 0) {
isc_event_free(&event);
launch_next_query(query, false);
UNLOCK_LOOKUP;
return;
}

/*
 * Even though the buffer was already init'ed, we need
 * to redo it now, to force the length we want.
 */
isc_buffer_invalidate(&query->recvbuf);
isc_buffer_init(&query->recvbuf, query->recvspace, length);
ENSURE(ISC_LIST_EMPTY(query->recvlist));
ISC_LINK_INIT(&query->recvbuf, link);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
design("recving with lookup=%p, query=%p", query->lookup, query);
result = isc_socket_recvv(query->sock, &query->recvlist, length, task,
recv_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
design("resubmitted recv request with length %d, recvcount=%d",
length, recvcount);
isc_event_free(&event);
UNLOCK_LOOKUP;
}

/*%
 * For transfers that involve multiple recvs (XFR's in particular),
 * launch the next recv.
 */
static void
launch_next_query(dig_query_t *query, bool include_question) {
isc_result_t result;
dig_lookup_t *l;
isc_buffer_t *buffer;

INSIST(!free_now);

design("launch_next_query()")

if (!query->lookup->pending) {
debug("ignoring launch_next_query because !pending");
isc_socket_detach(&query->sock);
sockcount--;
debuge("sockcount=%d", sockcount);
INSIST(sockcount >= 0);
query->waiting_connect = false;
l = query->lookup;
clear_query(query);
check_next_lookup(l);
return;
}

isc_buffer_clear(&query->slbuf);
isc_buffer_clear(&query->lengthbuf);
isc_buffer_putuint16(&query->slbuf, (uint16_t) query->sendbuf.used);
ISC_LIST_INIT(query->sendlist);
ISC_LINK_INIT(&query->slbuf, link);
if (!query->first_soa_rcvd) {
    buffer = clone_buffer(&query->slbuf);
    ISC_LIST_ENQUEUE(query->sendlist, buffer, link);
    if (include_question) {
        buffer = clone_buffer(&query->sendbuf);
        ISC_LIST_ENQUEUE(query->sendlist, buffer, link);
    }
}
ISC_LINK_INIT(&query->lengthbuf, link);
ISC_LIST_ENQUEUE(query->lengthlist, &query->lengthbuf, link);

result = isc_socket_recvv(query->sock, &query->lengthlist, 0,
    global_task, tcp_length_done, query);
check_result(result, "isc_socket_recvv");
recvcount++;
debuge("recvcount=%d", recvcount);
if (!query->first_soa_rcvd) {
    debug("sending a request in launch_next_query");
    TIME_NOW(&query->time_sent);
    query->waiting_senddone = true;
    result = isc_socket_sendv(query->sock, &query->sendlist,
        global_task, send_done, query);
    check_result(result, "isc_socket_sendv");
    sendcount++;
    debug("sendcount=%d", sendcount);
}
query->waiting_connect = false;
#if 0
check_next_lookup(query->lookup);
#endif
static void
connect_done(isc_task_t *task, isc_event_t *event) {
char sockstr[ISC_SOCKADDR_FORMATSIZE];
isc_socketevent_t *sevent = NULL;
dig_query_t *query = NULL, *next;
dig_lookup_t *l;

UNUSED(task);

REQUIRE(event->ev_type == ISC_SOCKEVENT_CONNECT);
INSIST(!free_now);

dbg("connect_done()");

LOCK_LOOKUP;
sevent = (isc_socketevent_t *)event;
query = sevent->ev_arg;

INSIST(query->waiting_connect);

query->waiting_connect = false;

if (sevent->result == ISC_R_CANCELED) {
  dbg("in cancel handler");
  isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
  if (query->timedout)
    printf(";; Connection to %s(%s) for %s failed: %s.
", sockstr, query->servname,
             query->lookup->textname,
             isc_result_totext(ISC_R_TIMEDOUT));
  isc_socket_detach(&query->sock);
  INSIST(sockcount > 0);
  sockcount--;
  dbg("sockcount=%d", sockcount);
  query->waiting_connect = false;
  isc_event_free(&event);
  l = query->lookup;
  clear_query(query);
  check_next_lookup(l);
  UNLOCK_LOOKUP;

} /*%
 * Event handler for TCP connect complete. Make sure the connection was
 * successful, then pass into launch_next_query to actually send the
 * question.
 */
/*%
return;
}
if (sevent->result != ISC_R_SUCCESS) {

debug("unsuccessful connection: %s",
    isc_result_totext(sevent->result));
isc_sockaddr_format(&query->sockaddr, sockstr, sizeof(sockstr));
if (sevent->result != ISC_R_CANCELED)
    printf(";; Connection to %s(%s) for %s failed: 
" "%s
", sockstr,
    query->servname, query->lookup->textname,
    isc_result_totext(sevent->result));
isc_socket_detach(&query->sock);
INSIST(sockcount > 0);
sockcount--;
/* XXX Clean up exitcodes */
if (exitcode < 9)
    exitcode = 9;
debug("sockcount=%d", sockcount);
query->waiting_connect = false;
isc_event_free(&event);
l = query->lookup;
if ((l->current_query != NULL) &&
    (ISC_LINK_LINKED(l->current_query, link)))
    next = ISC_LIST_NEXT(l->current_query, link);
else
    next = NULL;
clear_query(query);
if (next != NULL) {
    bringup_timer(next, TCP_TIMEOUT);
    send_tcp_connect(next);
} else
    check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}
exitcode = 0;
if (keep_open) {
    if (keep != NULL)
        isc_socket_detach(&keep);
    isc_socket_attach(query->sock, &keep);
    keepaddr = query->sockaddr;
} else
    check_next_lookup(l);
UNLOCK_LOOKUP;
}
/*
* Check if the ongoing XFR needs more data before it's complete, using
* the semantics of IXFR and AXFR protocols. Much of the complexity of
* this routine comes from determining when an IXFR is complete.
* false means more data is on the way, and the recv has been issued.
*/

static bool
check_for_more_data(dig_query_t *query, dns_message_t *msg,
                    isc_socketevent_t *sevent)
{
    dns_rdataset_t *rdataset = NULL;
    dns_rdata_t rdata = DNS_RDATA_INIT;
    dns_rdata_soa_t soa;
    uint32_t ixfr_serial = query->lookup->ixfr_serial, serial;
    isc_result_t result;
    bool ixfr = query->lookup->rdtype == dns_rdatatype_ixfr;
    bool axfr = query->lookup->rdtype == dns_rdatatype_axfr;

    if (ixfr)
        axfr = query->ixfr_axfr;

    debug("check_for_more_data()");

    /*
    * By the time we're in this routine, we know we're doing
    * either an AXFR or IXFR. If there's no second_rr_type,
    * then we don't yet know which kind of answer we got back
    * from the server. Here, we're going to walk through the
    * rr's in the message, acting as necessary whenever we hit
    * an SOA rr.
    */

    query->msg_count++;
    query->byte_count += sevent->n;
    result = dns_message_firstname(msg, DNS_SECTION_ANSWER);
    if (result != ISC_R_SUCCESS) {
        puts("; Transfer failed.");
        return (true);
    }
    do {
        dns_name_t *name;
        name = NULL;
        dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
        for (rdataset = ISC_LIST_HEAD(name->list);
            rdataset != NULL;
            rdataset = ISC_LIST_NEXT(rdataset, link)) {
            result = dns_rdataset_first(rdataset);
            break;
        }
    } while (false);

    return (false);
}
if (result != ISC_R_SUCCESS)
continue;
do {
query->rr_count++;
dns_rdata_reset(&rdata);
dns_rdset_current(rdataset, &rdata);
/*
 * If this is the first rr, make sure
 * it's an SOA
 */
if (!((query->first_soa_rcvd) &&
       (rdata.type != dns_rdatatype_soa))) {
    puts("; Transfer failed. ");
    "Didn't start with SOA answer.");
    return (true);
}
if (!((query->second_rr_rcvd) &&
      (rdata.type != dns_rdatatype_soa))) {
query->second_rr_rcvd = true;
query->second_rr_serial = 0;
dep("got the second rr as nonsoa");
axfr = query->ixfr_axfr = true;
goto next_rdata;
}
/*
 * If the record is anything except an SOA
 * now, just continue on...
 */
if (rdata.type != dns_rdatatype_soa)
goto next_rdata;
/* Now we have an SOA. Work with it. */
dep("got an SOA");
result = dns_rdata_tostruct(&rdata, &soa, NULL);
check_result(result, "dns_rdata_tostruct");
serial = soa.serial;
dns_rdata_freestruct(&soa);
if (!query->first_soa_rcvd) {
query->first_soa_rcvd = true;
query->first_rr_serial = serial;
dep("this is the first serial \%u",
    serial);
if (ixfr && isc_serial_ge(ixfr_serial,
                  serial)) {
    dep("got up to date ",
        "response");
goto doexit;
goto next_rdata;
}
if (axfr) {
    debug("doing axfr, got second SOA");
goto doexit;
}
if (!query->second_rr_rcvd) {
    if (query->first_rr_serial == serial) {
        debug("doing ixfr, got "
              "empty zone");
goto doexit;
    }
    debug("this is the second serial %u",
          serial);
    query->second_rr_rcvd = true;
    query->second_rr_serial = serial;
goto next_rdata;
}
/*
 * If we get to this point, we're doing an
 * IXFR and have to start really looking
 * at serial numbers.
 */
if (query->first_rr_serial == serial) {
    debug("got a match for ixfr");
    if (!query->first_repeat_rcvd) {
        query->first_repeat_rcvd =
        true;
goto next_rdata;
    }
    debug("done with ixfr");
goto doexit;
}
/* meaningless soa %u", serial);*/
next_rdata:
result = dns_rdataset_next(rdataset);
} while (result == ISC_R_SUCCESS);
}
result = dns_message_nextname(msg, DNS_SECTION_ANSWER);
} while (result == ISC_R_SUCCESS);
launch_next_query(query, false);
return (false);
doexit:
  dighost_received(sevent->n, &sevent->address, query);
return (true);
}
static void
process_cookie(dig_lookup_t *l, dns_message_t *msg,
    isc_buffer_t *optbuf, size_t optlen)
{
    char bb[256];
    isc_buffer_t hexbuf;
    size_t len;
    const unsigned char *sent;
    bool copy = true;
    isc_result_t result;

    if (l->cookie != NULL) {
        isc_buffer_init(&hexbuf, bb, sizeof(bb));
        result = isc_hex_decodestring(l->cookie, &hexbuf);
        check_result(result, "isc_hex_decodestring");
        sent = isc_buffer_base(&hexbuf);
        len = isc_buffer_usedlength(&hexbuf);
    } else {
        sent = cookie;
        len = sizeof(cookie);
    }

    INSIST(msg->cc_ok == 0 && msg->cc_bad == 0);
    if (len >= 8 && optlen >= 8U) {
        if (isc_safe_memequal(isc_buffer_current(optbuf), sent, 8)) {
            msg->cc_ok = 1;
        } else {
            printf(";; Warning: Client COOKIE mismatch\n");
            msg->cc_bad = 1;
            copy = false;
        }
    } else {
        printf(";; Warning: COOKIE bad token (too short)\n");
        msg->cc_bad = 1;
        copy = false;
    }
    if (copy) {
        isc_region_t r;
        r.base = isc_buffer_current(optbuf);
        r.length = (unsigned int)optlen;
        isc_buffer_init(&hexbuf, servercookie, sizeof(servercookie));
        result = isc_hex_totext(&r, 2, "", &hexbuf);
        check_result(result, "isc_hex_totext");
        if (isc_buffer_availablelength(&hexbuf) > 0) {
            isc_buffer_putuint8(&hexbuf, 0);
            l->cookie = servercookie;
        }
    }
isc_buffer_forward(optbuf, (unsigned int)optlen);

static void
process_opt(dig_lookup_t *l, dns_message_t *msg) {
  dns_rdata_t rdata;
  isc_result_t result;
  isc_buffer_t optbuf;
  uint16_t optcode, optlen;
  dns_rdataset_t *opt = msg->opt;
  bool seen_cookie = false;

  result = dns_rdataset_first(opt);
  if (result == ISC_R_SUCCESS) {
    dns_rdata_init(&rdata);
    dns_rdataset_current(opt, &rdata);
    isc_buffer_init(&optbuf, rdata.data, rdata.length);
    isc_buffer_add(&optbuf, rdata.length);
    while (isc_buffer_remaininglength(&optbuf) >= 4) {
      optcode = isc_buffer_getuint16(&optbuf);
      optlen = isc_buffer_getuint16(&optbuf);
      switch (optcode) {
      case DNS_OPT_COOKIE:
        /*
         * Only process the first cookie option.
         */
        if (seen_cookie) {
          isc_buffer_forward(&optbuf, optlen);
          break;
        }
        process_cookie(l, msg, &optbuf, optlen);
        seen_cookie = true;
        break;
      default:
        isc_buffer_forward(&optbuf, optlen);
        break;
      }
    }
    seen_cookie = true;
    break;
  }
  }

static int
ednsvers(dns_rdataset_t *opt) {
  return ((opt->ttl >> 16) & 0xff);
}

/*%
Event handler for recv complete. Perform whatever actions are necessary, based on the specifics of the user's request.

```c
static void
recv_done(isc_task_t *task, isc_event_t *event) {
    isc_socketevent_t *sevent = NULL;
    dig_query_t *query = NULL;
    isc_buffer_t *b = NULL;
    dns_message_t *msg = NULL;
#ifdef DIG_SIGCHASE
    dig_message_t *chase_msg = NULL;
    dig_message_t *chase_msg2 = NULL;
#endif
    isc_result_t result;
    dig_lookup_t *n, *l;
    bool docancel = false;
    bool match = true;
    bool done_process_opt = false;
    unsigned int parseflags;
    dns_messageid_t id;
    unsigned int msgflags;
#ifdef DIG_SIGCHASE
    isc_result_t do_sigchase = false;
    dns_message_t *msg_temp = NULL;
    isc_region_t r;
    isc_buffer_t *buf = NULL;
#endif
    int newedns;

    UNUSED(task);
    INSIST(!free_now);

    debug("recv_done()");

    LOCK_LOOKUP;
    recvcount--;
    debug("recvcount=%d", recvcount);
    INSIST(recvcount >= 0);

    query = event->ev_arg;
    TIME_NOW(&query->time_recv);
    debug("lookup=%p, query=%p", query->lookup, query);

    l = query->lookup;
    REQUIRE(event->ev_type == ISC_SOCKEVENT_RECVDONE);
    sevent = (isc_socketevent_t *)event;
```
b = ISC_LIST_HEAD(sevent->bufferlist);
INSIST(b == &query->recvbuf);
ISC_LIST_DEQUEUE(sevent->bufferlist, &query->recvbuf, link);

if ((l->tcp_mode) && (query->timer != NULL))
    isc_timer_touch(query->timer);
if (((!l->pending) && (!l->ns_search_only)) || cancel_now) {
    debug("no longer pending. Got %s",
            isc_result_totext(sevent->result));
    query->waiting_connect = false;
}

isc_event_free(&event);
clear_query(query);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}

if (sevent->result != ISC_R_SUCCESS) {
    if (sevent->result == ISC_R_CANCELED) {
        debug("in recv cancel handler");
        query->waiting_connect = false;
    } else {
        printf(";; communications error: %s\n",
                isc_result_totext(sevent->result));
        if (keep != NULL)
            isc_socket_detach(&keep);
        isc_socket_detach(&query->sock);
        sockcount--;
        debug("sockcount=%d", sockcount);
        INSIST(sockcount >= 0);
    }
    if (sevent->result == ISC_R_EOF && l->eoferr == 0U) {
        n = requeue_lookup(l, true);
        n->eoferr++;
    }
    isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
}

if (!l->tcp_mode &&
    !isc_sockaddr_compare(&sevent->address, &query->sockaddr,
        ISC_SOCKADDR_CMPADDR|}
ISC_SOCKADDR_CMPPORT]
ISC_SOCKADDR_CMPSCOPE]
n ISC_SOCKADDR_CMPSCOPEZERO))} [char buf1][ISC_SOCKADDR_FORMATSIZE];
char buf2[ISC_SOCKADDR_FORMATSIZE];
isc_sockaddr_t any;

if (isc_sockaddr_pf(&query->sockaddr) == AF_INET)
isc_sockaddr_any(&any);
else
isc_sockaddr_any6(&any);

/*
 * We don't expect a match when the packet is
 * sent to 0.0.0.0, :: or to a multicast addresses.
 * XXXMPA broadcast needs to be handled here as well.
 */
if ((!isc_sockaddr_eqaddr(&query->sockaddr, &any) &&
!isc_sockaddr_ismulticast(&query->sockaddr)) ||
isc_sockaddr_getport(&query->sockaddr) !=
isc_sockaddr_getport(&sevent->address)) {
isc_sockaddr_format(&sevent->address, buf1,
sizeof(buf1));
isc_sockaddr_format(&query->sockaddr, buf2,
sizeof(buf2));
printf(";; reply from unexpected source: %s,
" expected %s\n", buf1, buf2);
match = false;
}

result = dns_message_peekheader(b, &id, &msgflags);
if (result != ISC_R_SUCCESS || l->sendmsg->id != id) {
match = false;
if (l->tcp_mode) {
bool fail = true;
if (result == ISC_R_SUCCESS) {
if (!query->first_soa_rcvd ||
query->warn_id)
printf(";; %s: ID mismatch: ",
"expected ID %u, got %u\n",
query->first_soa_rcvd ?
"WARNING" : "ERROR",
l->sendmsg->id, id);
if (query->first_soa_rcvd)
fail = false;
query->warn_id = false;
} else
printf(";; ERROR: short ">
    "(< header size) message\n\n);  
if (fail) {  
    isc_event_free(&event);  
    clear_query(query);  
    cancel_lookup(l);  
    check_next_lookup(l);  
    UNLOCK_LOOKUP;  
    return;  
}  
match = true;  
} else if (result == ISC_R_SUCCESS)  
printf(";; Warning: ID mismatch: ")  
    "expected ID %u, got %u\n", l->sendmsg->id, id);  
else  
printf(";; Warning: short ">
    "(< header size) message received\n\n");  
}  

if (result == ISC_R_SUCCESS && (msgflags & DNS_MESSAGEFLAG_QR) == 0)  
printf(";; Warning: query response not set\n");  

if (!match)  
goto udp_mismatch;  

result = dns_message_create(mctx, DNS_MESSAGE_INTENTPARSE, &msg);  
check_result(result, "dns_message_create");  

if (tsigkey != NULL) {  
    if (l->querysig == NULL) {  
        debug("getting initial querysig");  
        result = dns_message_getquerytsig(l->sendmsg, mctx,  
            &l->querysig);  
        check_result(result, "dns_message_getquerytsig");  
    }  
    result = dns_message_setquerytsig(msg, l->querysig);  
    check_result(result, "dns_message_setquerytsig");  
    result = dns_message_settsigkey(msg, tsigkey);  
    check_result(result, "dns_message_settsigkey");  
    msg->tsigctx = l->tsigctx;  
    l->tsigctx = NULL;  
    if (l->msgcounter != 0)  
        msg->tcp_continuation = 1;  
    l->msgcounter++;  
}  

dump("before parse starts");  
parseflags = DNS_MESSAGEPARSE_PRESERVEORDER;
#ifdef DIG_SIGCHASE
if (!l->sigchase) {
    do_sigchase = false;
} else {
    parseflags = 0;
    do_sigchase = true;
}
#endif
if (l->besteffort) {
    parseflags |= DNS_MESSAGEPARSE_BESTEFFORT;
    parseflags |= DNS_MESSAGEPARSE_IGNORETRUNCATION;
}
result = dns_message_parse(msg, b, parseflags);
if (result == DNS_R_RECOVERABLE) {
    printf(";; Warning: Message parser reports malformed 
          "message packet.
          ");
    result = ISC_R_SUCCESS;
}
if (result != ISC_R_SUCCESS) {
    printf(";; Got bad packet: %s
", isc_result_totext(result));
    hex_dump(b);
    query->waiting_connect = false;
    dns_message_destroy(&msg);
    isc_event_free(&event);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}
if (msg->counts[DNS_SECTION_QUESTION] != 0) {
    match = true;
    for (result = dns_message_firstname(msg, DNS_SECTION_QUESTION);
         result == ISC_R_SUCCESS && match;
         result = dns_message_nextname(msg, DNS_SECTION_QUESTION)) {
        dns_name_t *name = NULL;
        dns_rdataset_t *rdataset =
            dns_message_currentname(msg, DNS_SECTION_QUESTION, &name);
        for (rdataset = ISC_LIST_HEAD(name->list);
             rdataset != NULL;
             rdataset = ISC_LIST_NEXT(rdataset, link)) {
            if (l->rdtype != rdataset->type ||
                l->rdclass != rdataset->rdclass ||
                !dns_name_equal(l->name, name)) {
                char namestr[DNS_NAME_FORMATSIZE];
                char typebuf[DNS_RDATATYPE_FORMATSIZE];
            }
char classbuf[DNS_RDATACLASS_FORMATSIZE];
dns_name_format(name, namestr,
sizeof(namestr));
dns_rdatatype_format(rdataset->type,
    typebuf,
    sizeof(typebuf));
dns_rdataclass_format(rdataset->rdclass,
    classbuf,
    sizeof(classbuf));
printf(";; Question section mismatch: ",
    "got %s/%s/%s\n",
    namestr, typebuf, classbuf);
match = false;
}
}
}
if (!match) {
dns_message_destroy(&msg);
if (l->tcp_mode) {
    isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
} else
    goto udp_mismatch;
}
if (msg->rcode == dns_rcode_badvers && msg->opt != NULL &&
    (newedns = ednsvers(msg->opt)) < l->edns && l->ednsneg) {
    /*
     * Add minimum EDNS version required checks here if needed.
     */
    if (l->comments)
        printf(";; BADVERS, retrying with EDNS version %u.\n",
            (unsigned int)newedns);
    l->edns = newedns;
    n = requeue_lookup(l, true);
    if (l->trace && l->trace_root)
        n->rdtype = l->qrdtype;
dns_message_destroy(&msg);
    isc_event_free(&event);
clear_query(query);
cancel_lookup(l);
check_next_lookup(l);
UNLOCK_LOOKUP;
return;
if ((msg->flags & DNS_MESSAGEFLAG_TC) != 0 && 
   !l->ignore && !l->tcp_mode) {
if (l->cookie == NULL && l->sendcookie && msg->opt != NULL)
    process_opt(l, msg);
if (l->comments)
    printf(";; Truncated, retrying in TCP mode.
");
    n = requeue_lookup(l, true);
    n->tcp_mode = true;
    if (l->trace && l->trace_root)
    n->rdtype = l->qrdtype;
    dns_message_destroy(&msg);
    isc_event_free(&event);
    clear_query(query);
    cancel_lookup(l);
    check_next_lookup(l);
    UNLOCK_LOOKUP;
    return;
}
if (msg->rcode == dns_rcode_badcookie && !l->tcp_mode && 
   l->sendcookie && l->badcookie) {
    process_opt(l, msg);
    if (msg->cc_ok) {
        if (l->comments)
            printf(";; BADCOOKIE, retrying%s.", 
               l->seenbadcookie ? " in TCP mode" : "");
        n = requeue_lookup(l, true);
        if (l->seenbadcookie)
            n->tcp_mode = true;
        n->seenbadcookie = true;
        if (l->trace && l->trace_root)
            n->rdtype = l->qrdtype;
            dns_message_destroy(&msg);
            isc_event_free(&event);
            clear_query(query);
            cancel_lookup(l);
            check_next_lookup(l);
            UNLOCK_LOOKUP;
            return;
    }
    done_process_opt = true;
    }
if ((msg->rcode == dns_rcode_servfail && !l->servfail_stops) ||
    (check_ra && (msg->flags & DNS_MESSAGEFLAG_RA) == 0 && l->recurse))
    { 
    dig_query_t *next = ISC_LIST_NEXT(query, link);
    if (l->current_query == query)
        l->current_query = NULL;
if (next != NULL) {
  debug("sending query \%p\n", next);
  if (l->tcp_mode)
    send_tcp_connect(next);
  else
    send_udp(next);
}

/*
 * If our query is at the head of the list and there
 * is no next, we're the only one left, so fall
 * through to print the message.
 */
if ((ISC_LIST_HEAD(l->q) != query) ||
    (ISC_LIST_NEXT(query, link) != NULL)) {
  if (l->comments)
    printf(";; Got %s from %s, ",
            "trying next server\n",
            msg->rcode == dns_rcode_servfail ?
            "SERVFAIL reply":
            "recursion not available",
            query->servname);
  clear_query(query);
  check_next_lookup(l);
  dns_message_destroy(&msg);
  isc_event_free(&event);
  UNLOCK_LOOKUP;
  return;
}

if (tsigkey != NULL) {
  result = dns_tsig_verify(&query->recvbuf, msg, NULL, NULL);
  if (result != ISC_R_SUCCESS) {
    printf(";; Couldn't verify signature: %s\n",
           isc_result_totext(result));
    validated = false;
  }
  l->tsigctx = msg->tsigctx;
  msg->tsigctx = NULL;
  if (l->querysig != NULL) {
    debug("freeing querysig buffer %p", l->querysig);
    isc_buffer_free(&l->querysig);
  }
  result = dns_message_getquerytsig(msg, mctx, &l->querysig);
  check_result(result,"dns_message_getquerytsig");
}

extrabytes = isc_buffer_remaininglength(b);
debug("after parse");
if (l->doing_xfr && l->xfr_q == NULL) {
  l->xfr_q = query;
} /*
 * Once we are in the XFR message, increase
 * the timeout to much longer, so brief network
 * outages won't cause the XFR to abort
 */
if (timeout != INT_MAX && query->timer != NULL) {
  unsigned int local_timeout;
  if (timeout == 0) {
    if (l->tcp_mode)
      local_timeout = TCP_TIMEOUT * 4;
    else
      local_timeout = UDP_TIMEOUT * 4;
  } else {
    if (timeout < (INT_MAX / 4))
      local_timeout = timeout * 4;
    else
      local_timeout = INT_MAX;
  }
  debug("have local timeout of %d", local_timeout);
  isc_interval_set(&l->interval, local_timeout, 0);
  result = isc_timer_reset(query->timer,
    isc_timertype_once,
    NULL,
    &l->interval,
    false);
  check_result(result, "isc_timer_reset");
}

if (!done_process_opt) {
  if (l->cookie != NULL) {
    if (msg->opt == NULL) {
      printf(";; expected opt record in response\n");
    } else {
      process_opt(l, msg);
    }
  } else if (l->sendcookie && msg->opt != NULL) {
    process_opt(l, msg);
  } 
  else if (l->sendcookie && msg->opt != NULL) {
    process_opt(l, msg);
  }
  if (!l->doing_xfr || l->xfr_q == query) {
    if (msg->rcode == dns_rcode_nxdomain &&
      (l->origin != NULL || l->need_search)) {
if (!next_origin(query->lookup) || showsearch) {
dighost_printmessage(query, msg, true);
dighost_received(b->used, &sevent->address, query);
} else if (!l->trace && !l->ns_search_only) {
    #ifdef DIG_SIGCHASE
    if (!do_sigchase)
        #endif
dighost_printmessage(query, msg, true);
} else if (l->trace) {
    int nl = 0;
    int count = msg->counts[DNS_SECTION_ANSWER];

d debug("in TRACE code");
if (!l->ns_search_only)
dighost_printmessage(query, msg, true);

l->rdtype = l->qrdtype;
if (l->trace_root || (l->ns_search_only && count > 0)) {
    if (!l->trace_root)
l->rdtype = dns_rdatatype_soa;
    nl = followup_lookup(msg, query,
    DNS_SECTION_ANSWER);
l->trace_root = false;
} else if (count == 0)
l = followup_lookup(msg, query,
    DNS_SECTION_AUTHORITY);
if (nl == 0)
docancel = true;
} else {
    debug("in NSSEARCH code");

if (l->trace_root) {
/*
 * This is the initial NS query.
 */
    int nl;

    l->rdtype = dns_rdatatype_soa;
    nl = followup_lookup(msg, query,
    DNS_SECTION_ANSWER);
    if (nl == 0)
docancel = true;
    l->trace_root = false;
    usesearch = false;
} else
    #ifdef DIG_SIGCHASE
    if (!do_sigchase)
        #endif
#ifndef DIG_SIGCHASE
if (do_sigchase) {
    chase_msg = isc_mem_allocate(mctx,
    sizeof(dig_message_t));
    if (chase_msg == NULL) {
        fatal("Memory allocation failure in %s:%d",
                __FILE__, __LINE__);
    }
    ISC_LIST_INITANDAPPEND(chase_message_list, chase_msg,
        link);
    if (dns_message_create(mctx, DNS_MESSAGE_INTENTPARSE,
        &msg_temp) != ISC_R_SUCCESS) {
        fatal("dns_message_create in %s:%d",
                __FILE__, __LINE__);
    }
    isc_buffer_usedregion(b, &r);
    result = isc_buffer_allocate(mctx, &buf, r.length);

    check_result(result, "isc_buffer_allocate");
    result = isc_buffer_copyregion(buf, &r);
    check_result(result, "isc_buffer_copyregion");

    result = dns_message_parse(msg_temp, buf, 0);

    isc_buffer_free(&buf);
    chase_msg->msg = msg_temp;

    chase_msg2 = isc_mem_allocate(mctx,
        sizeof(dig_message_t));
    if (chase_msg2 == NULL) {
        fatal("Memory allocation failure in %s:%d",
                __FILE__, __LINE__);
    }
    ISC_LIST_INITANDAPPEND(chase_message_list2, chase_msg2,
        link);
    chase_msg2->msg = msg;
}
#endif

#include DIG_SIGCHASE
if (l->sigchase && ISC_LIST_EMPTY(lookup_list)) {
    sigchase(msg_temp);
}
if (l->pending)
    debug("still pending.");
if (l->doing_xfr) {
    if (query != l->xfr_q) {
        dns_message_destroy(&msg);
        isc_event_free(&event);
        query->waiting_connect = false;
        UNLOCK_LOOKUP;
        return;
    }
    if (!docancel)
        docancel = check_for_more_data(query, msg, sevent);
    if (docancel) {
        dns_message_destroy(&msg);
        clear_query(query);
        cancel_lookup(l);
        check_next_lookup(l);
    } else {
        if (msg->rcode == dns_rcode_noerror || l->origin == NULL) {
            #ifdef DIG_SIGCHASE
            if (!l->sigchase)
                #endif
            dighost_received(b->used, &sevent->address, query);
            }
            if (!query->lookup->ns_search_only)
                query->lookup->pending = false;
            if (!query->lookup->ns_search_only || query->lookup->trace_root || docancel) {
                #ifdef DIG_SIGCHASE
                if (!do_sigchase)
                    #endif
                dns_message_destroy(&msg);
                cancel_lookup(l);
            }
            clear_query(query);
            check_next_lookup(l);
        }
        if (msg != NULL) {
            #ifdef DIG_SIGCHASE
            if (do_sigchase)
                msg = NULL;
            #endif
        }
    }
}
else
#endif

dns_message_destroy(&msg);
}
isc_event_free(&event);
UNLOCK_LOOKUP;
return;

udp_mismatch:
isc_buffer.invalidate(&query->recvbuf);
isc_buffer.init(&query->recvbuf, query->recvspace, COMMSIZE);
ISC_LIST_ENQUEUE(query->recvlist, &query->recvbuf, link);
result = isc_socket_recv(query->sock, &query->recvlist, 1,
  global_task, recv_done, query);
check_result(result, "isc_socket_recv");
recvcount++;
isc_event_free(&event);
UNLOCK_LOOKUP;
return;
}

/*% *
 * Turn a name into an address, using system-supplied routines. This is *
 * used in looking up server names, etc... and needs to use system-supplied *
 * routines, since they may be using a non-DNS system for these lookups. *
 */
isc_result_t
get_address(char *host, in_port_t myport, isc_sockaddr_t *sockaddr) {
int count;
isc_result_t result;
bool is_running;

is_running = isc_app_isrunning();
if (is_running)
  isc_app_block();
result = bind9_getaddresses(host, myport, sockaddr, 1, &count);
if (is_running)
  isc_app_unblock();
if (result != ISC_R_SUCCESS)
  return (result);

INSIST(count == 1);

return (ISC_R_SUCCESS);
}

int
getaddresses(dig_lookup_t *lookup, const char *host, isc_result_t *resultp) {
isc_result_t result;
isc_sockaddr_t sockaddrs[DIG_MAX_ADDRESSES];
isc_netaddr_t netaddr;
int count, i;
dig_server_t *srv;
char tmp[ISC_NETADDR_FORMATSIZE];

result = bind9_getaddresses(host, 0, sockaddrs,
    DIG_MAX_ADDRESSES, &count);
if (resultp != NULL)
    *resultp = result;
if (result != ISC_R_SUCCESS) {
    if (resultp == NULL)
        fatal("couldn't get address for '%s': %s",
            host, isc_result_totext(result));
    return (0);
}
for (i = 0; i < count; i++) {
    isc_netaddr_fromsockaddr(&netaddr, &sockaddrs[i]);
    isc_netaddr_format(&netaddr, tmp, sizeof(tmp));
    srv = make_server(tmp, host);
    ISC_LIST_APPEND(lookup->my_server_list, srv, link);
}
return (count);
}

/*%
* Initiate either a TCP or UDP lookup
*/
void
do_lookup(dig_lookup_t *lookup) {
    dig_query_t *query;

    REQUIRE(lookup != NULL);

    debug("do_lookup()");
    lookup->pending = true;
    query = ISC_LIST_HEAD(lookup->q);
    if (query != NULL) {
        if (lookup->tcp_mode)
            send_tcp_connect(query);
        else
            send_udp(query);
    }
}
/%*/
* Start everything in action upon task startup. */

void
onrun_callback(isc_task_t *task, isc_event_t *event) {
    UNUSED(task);

    isc_event_free(&event);
    LOCK_LOOKUP;
    start_lookup();
    UNLOCK_LOOKUP;
}

/*%*/
* Make everything on the lookup queue go away. Mainly used by the
* SIGINT handler. */

void
cancel_all(void) {
    dig_lookup_t *l, *n;
    dig_query_t *q, *nq;

    debug("cancel_all()");

    LOCK_LOOKUP;
    if (free_now) {
        UNLOCK_LOOKUP;
        return;
    }
    cancel_now = true;
    if (current_lookup != NULL) {
        for (q = ISC_LIST_HEAD(current_lookup->q);
            q != NULL;
            q = nq)
        { nq = ISC_LIST_NEXT(q, link);
            debug("canceling pending query %p, belonging to %p",
                q, current_lookup);
            if (q->sock != NULL)
                isc_socket_cancel(q->sock, NULL,
                    ISC_SOCKCANCEL_ALL);
            else
                clear_query(q);
        }
    }
    for (q = ISC_LIST_HEAD(current_lookup->connecting);
        q != NULL;
        q = nq)
    {
nq = ISC_LIST_NEXT(q, clink);
debug("canceling connecting query %p, belonging to %p",
    q, current_lookup);
if (q->sock != NULL)
    isc_socket_cancel(q->sock, NULL,
        ISC_SOCKCANCEL_ALL);
else
    clear_query(q);
}
}
l = ISC_LIST_HEAD(lookup_list);
while (l != NULL) {
    n = ISC_LIST_NEXT(l, link);
    ISC_LIST_DEQUEUE(lookup_list, l, link);
    try_clear_lookup(l);
    l = n;
} 
UNLOCK_LOOKUP;
}

/*%
 * Destroy all of the libs we are using, and get everything ready for a
 * clean shutdown.
 */
void
destroy_libs(void) {
#ifdef DIG_SIGCHASE
void * ptr;
dig_message_t *chase_msg;
#endif
#ifdef WITH_IDN_SUPPORT
isc_result_t result;
#endif

if (keep != NULL)
    isc_socket_detach(&keep);
ddebug("destroy_libs()";
if (global_task != NULL) {
    debug("freeing task");
    isc_task_detach(&global_task);
}
/*
 * The taskmgr_destroy() call blocks until all events are cleared
 * from the task.
 */
if (taskmgr != NULL) {
    debug("freeing taskmgr");
    isc_taskmgr_destroy(&taskmgr);
LOCK_LOOKUP;
REQUIRE(sockcount == 0);
REQUIRE(reccvcount == 0);
REQUIRE(sendcount == 0);

INSIST(ISC_LIST_HEAD(lookup_list) == NULL);
INSIST(current_lookup == NULL);
INSIST(!free_now);

free_now = true;

lwres_conf_clear(lwctx);
lwres_context_destroy(&lwctx);

flush_server_list();
clear_searchlist();

#ifdef WITH_IDN_SUPPORT
result = dns_name_settotextfilter(NULL);
check_result(result, "dns_name_settotextfilter");
#endif
dns_name_destroy();

if (commctx != NULL) {
    debug("freeing commctx");
    isc_mempool_destroy(&commctx);
}
if (socketmgr != NULL) {
    debug("freeing socketmgr");
    isc_socketmgr_destroy(&socketmgr);
}
if (timermgr != NULL) {
    debug("freeing timermgr");
    isc_timermgr_destroy(&timermgr);
}
if (tsigkey != NULL) {
    debug("freeing key %p", tsigkey);
    dns_tsigkey_detach(&tsigkey);
}
if (namebuf != NULL)
    isc_buffer_free(&namebuf);

if (is_dst_up) {
    debug("destroy DST lib");
    dst_lib_destroy();
is_dst_up = false;
if (entp != NULL) {
dbg("detach from entropy");
isc_entropy_detach(&entp);
}

UNLOCK_LOOKUP;
DESTROYLOCK(&lookup_lock);
#ifdef DIG_SIGCHASE

dbg("Destroy the messages kept for sigchase");
/* Destroy the messages kept for sigchase */
chase_msg = ISC_LIST_HEAD(chase_message_list);
while (chase_msg != NULL) {
    INSIST(chase_msg->msg != NULL);
dnsm_message_destroy(&(chase_msg->msg));
    ptr = chase_msg;
    chase_msg = ISC_LIST_NEXT(chase_msg, link);
    isc_mem_free(mctx, ptr);
}
chase_msg = ISC_LIST_HEAD(chase_message_list2);
while (chase_msg != NULL) {
    INSIST(chase_msg->msg != NULL);
dnsm_message_destroy(&(chase_msg->msg));
    ptr = chase_msg;
    chase_msg = ISC_LIST_NEXT(chase_msg, link);
    isc_mem_free(mctx, ptr);
}  
if (dns_name_dynamic(&chase_name))
    free_name(&chase_name);
#ifdef DIG_SIGCHASE_TD
if (dns_name_dynamic(&chase_current_name))
    free_name(&chase_current_name);
if (dns_name_dynamic(&chase_authority_name))
    free_name(&chase_authority_name);
#endif
#ifdef DIG_SIGCHASE_BU
if (dns_name_dynamic(&chase_signame))
    free_name(&chase_signame);
#endif

dbg("Removing log context");
isc_log_destroy(&lctx);
debug("Destroy memory");
if (memdebugging != 0)
isc_mem_stats(mctx, stderr);
if (mctx != NULL)
isc_mem_destroy(&mctx);
}

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t
output_filter(isc_buffer_t *buffer, unsigned int used_org,
    bool absolute)
{
    char tmp1[MAXDLEN], tmp2[MAXDLEN];
    size_t fromlen, tolen;
    bool end_with_dot;
    isc_result_t result;

    /*
     * Copy contents of 'buffer' to 'tmp1', supply trailing dot
     * if 'absolute' is true, and terminate with NUL.
     */
    fromlen = isc_buffer_usedlength(buffer) - used_org;
    if (fromlen >= MAXDLEN)
        return (ISC_R_SUCCESS);
    memmove(tmp1, (char *)isc_buffer_base(buffer) + used_org, fromlen);
    end_with_dot = (tmp1[fromlen - 1] == '.') ? true : false;
    if (absolute && !end_with_dot) {
        fromlen++;
        if (fromlen >= MAXDLEN)
            return (ISC_R_SUCCESS);
        tmp1[fromlen - 1] = '.';
    }
    tmp1[fromlen] = '\0';

    /*
     * Convert contents of 'tmp1' to local encoding.
     */
    result = idn_ace_to_locale(tmp1, tmp2, sizeof(tmp2));
    if (result != ISC_R_SUCCESS) {
        return (ISC_R_SUCCESS);
    }

    /*
     * Copy the converted contents in 'tmp1' back to 'buffer'.
     * If we have appended trailing dot, remove it.
     */
    tolen = strlen(tmp2);
if (absolute && !end_with_dot && tmp2[tolen - 1] == '.')
    tolen--; 

if (isc_buffer_length(buffer) < used_org + tolen)
    return (ISC_R_NOSPACE);

isc_buffer_subtract(buffer, isc_buffer_usedlength(buffer) - used_org);
memmove(isc_buffer_used(buffer), tmp2, tolen);
isc_buffer_add(buffer, (unsigned int)tolen);

return (ISC_R_SUCCESS);
}
#endif

#ifdef WITH_IDN_SUPPORT
#ifdef WITH_IDNKIT
static void
idnkit_check_result(idn_result_t result, const char *msg) {
    if (result != idn_success) {
        fatal("%s: %s", msg, idn_result_tostring(result));
    }
}

static void
idn_initialize(void) {
    idn_result_t result;

    /* Create configuration context. */
    result = idn_nameinit(1);
    idnkit_check_result(result, "idnkit api initialization failed");
    return (ISC_R_SUCCESS);
}

static isc_result_t
idn_locale_to_ace(const char *from, char *to, size_t tolen) {
    char utf8_textname[MXNAME];
    idn_result_t result;

    result = idn_encodename(IDN_LOCALCONV | IDN_DELIMMAP, from,
        utf8_textname, sizeof(utf8_textname));
    idnkit_check_result(result, "idnkit idn_encodename to utf8 failed");

    result = idn_encodename(idnoptions | IDN_LOCALMAP | IDN_NAMEPREP |
        IDN_IDNCONV | IDN_LENCHECK, utf8_textname, to, tolen);
    idnkit_check_result(result, "idnkit idn_encodename to idn failed");
    return (ISC_R_SUCCESS);
}
static isc_result_t
idn_ace_to_locale(const char *from, char *to, size_t tolen) {
    idn_result_t result;

    result = idn_decodename(IDN_DECODE_APP, from, to, tolen);
    if (result != idn_success) {
        debug("idnkit idn_decodename failed: %s",
              idn_result_tostring(result));
        return (ISC_R_FAILURE);
    }
    return (ISC_R_SUCCESS);
}
#endif /* WITH_IDNKIT */

#ifdef WITH_LIBIDN2
static void
idn_initialize(void) {
}

static isc_result_t
idn_locale_to_ace(const char *from, char *to, size_t tolen) {
    int res;
    char *tmp_str = NULL;

    res = idn2_to_ascii_lz(from, &tmp_str, IDN2_NONTRANSITIONAL|IDN2_NFC_INPUT);
    if (res == IDN2_DISALLOWED) {
        res = idn2_to_ascii_lz(from, &tmp_str, IDN2_TRANSITIONAL|IDN2_NFC_INPUT);
    }
    if (res == IDN2_OK) {
        /* idn2_to_ascii_lz() normalizes all strings to lowerl case,
         * but we generally don't want to lowercase all input strings;
         * make sure to return the original case if the two strings
         * differ only in case
         */
        if (!strcasecmp(from, tmp_str)) {
            if (strlen(from) >= tolen) {
                debug("from string is too long");
                idn2_free(tmp_str);
                return ISC_R_NOSPACE;
            }
            idn2_free(tmp_str);
            (void) strlcpy(to, from, tolen);
            return ISC_R_SUCCESS;
        }
        /* check the length */
if (strlen(tmp_str) >= tolen) {
    debug("ACE string is too long");
    idn2_free(tmp_str);
    return ISC_R_NOSPACE;
}

(void) strlcpy(to, tmp_str, tolen);
idn2_free(tmp_str);
return ISC_R_SUCCESS;
}
fatal("'%s' is not a legal IDN name (%s), use +noidnin", from, idn2_strerror(res));
return ISC_R_FAILURE;
}

#ifdef WITH_IDN_OUT_SUPPORT
static isc_result_t
idn_ace_to_locale(const char *from, char *to, size_t tolen) {
    int res;
    char *utf8_src, *tmp_str = NULL;

    /*
     * We need to:
     * 1) check whether 'from' is a valid IDNA2008 name,
     * 2) if it is, output it in the current locale's character encoding.
     * Unlike idn2_to_ascii_*(), idn2_to_unicode_*() functions are unable
     * to perform IDNA2008 validity checks. Thus, we need to decode any
     * Punycode in 'from', check if the resulting name is a valid IDNA2008
     * name, and only once we ensure it is, output that name in the current
     * locale's character encoding.
     * We could just use idn2_to_unicode_8z8z() + idn2_to_ascii_lz(), but
     * then we would not be able to universally tell invalid names and
     * character encoding errors apart (if the current locale uses ASCII
     * for character encoding, the former function would fail even for a
     * valid IDNA2008 name, as long as it contained any non-ASCII
     * character). Thus, we need to take a longer route.
     * First, convert 'from' to UTF-8, ignoring the current locale.
     */
    res = idn2_to_unicode_8z8z(from, &utf8_src, 0);
    if (res != IDN2_OK) {
        fatal("Bad ACE string '%s' (%s), use +noidnout", from, idn2_strerror(res));
    }
    /*
     */
    return ...
}
/*
 * Then, check whether decoded 'from' is a valid IDNA2008 name.
 */
res = idn2_to_ascii_8z(utf8_src, NULL, IDN2_NONTRANSITIONAL);
if (res != IDN2_OK) {
fatal("'%s' is not a legal IDNA2008 name (%s), use +noidnout",
    from, idn2_strerror(res));
}

/*
 * Finally, try converting the decoded 'from' into the current locale's
 * character encoding.
 */
res = idn2_to_unicode_8zlz(utf8_src, &tmp_str, 0);
if (res != IDN2_OK) {
fatal("Cannot represent '%s' in the current locale (%s), ",
    "use +noidnout or a different locale",
    from, idn2_strerror(res));
}

/*
 * Free the interim conversion result.
 */
idn2_free(utf8_src);

/* check the length */
if (strlen(tmp_str) >= tolen) {
diag("encoded ASC string is too long");
idn2_free(tmp_str);
return (ISC_R_FAILURE);
}

(void) strlcpy(to, tmp_str, tolen);
idn2_free(tmp_str);
return (ISC_R_SUCCESS);

#endif /* WITH_IDN_OUT_SUPPORT */
#endif /* WITH_LIBIDN2 */
#endif /* WITH_IDN_SUPPORT */

#ifdef DIG_SIGCHASE
void
print_type(dns_rdatatype_t type)
{
isc_buffer_t * b = NULL;
isc_result_t result;
isc_region_t r;
*/

/ * Then, check whether decoded 'from' is a valid IDNA2008 name. */
res = idn2_to_ascii_8z(utf8_src, NULL, IDN2_NONTRANSITIONAL);
if (res != IDN2_OK) {
fatal("%s' is not a legal IDNA2008 name (%s), use +noidnout",
    from, idn2_strerror(res));
}

/*
 * Finally, try converting the decoded 'from' into the current locale's
 * character encoding.
 */
res = idn2_to_unicode_8zlz(utf8_src, &tmp_str, 0);
if (res != IDN2_OK) {
fatal("Cannot represent '%s' in the current locale (%s), ",
    "use +noidnout or a different locale",
    from, idn2_strerror(res));
}

/*
 * Free the interim conversion result.
 */
idn2_free(utf8_src);

/* check the length */
if (strlen(tmp_str) >= tolen) {
diag("encoded ASC string is too long");
idn2_free(tmp_str);
return (ISC_R_FAILURE);
}

(void) strlcpy(to, tmp_str, tolen);
idn2_free(tmp_str);
return (ISC_R_SUCCESS);

#endif /* WITH_IDN_OUT_SUPPORT */
#endif /* WITH_LIBIDN2 */
#endif /* WITH_IDN_SUPPORT */

#endif /* WITH_IDN_OUT_SUPPORT */
#endif /* WITH_LIBIDN2 */
#endif /* WITH_IDN_SUPPORT */

#ifdef DIG_SIGCHASE
void
print_type(dns_rdatatype_t type)
{
isc_buffer_t * b = NULL;
isc_result_t result;
isc_region_t r;
result = isc_buffer_allocate(mctx, &b, 4000);
check_result(result, "isc_buffer_allocate");

result = dns_rdatatype_totext(type, b);
check_result(result, "print_type");

isc_buffer_usedregion(b, &r);
r.base[r.length] = '\0';
printf("%s", r.base);
isc_buffer_free(&b);
}

void
dump_database_section(dns_message_t *msg, int section)
{
    dns_name_t *msg_name=NULL;

    dns_rdataset_t *rdataset;

do {
    dns_message_currentname(msg, section, &msg_name);

    for (rdataset = ISC_LIST_HEAD(msg_name->list); rdataset != NULL;
         rdataset = ISC_LIST_NEXT(rdataset, link)) {
        dns_name_print(msg_name, stdout);
printf("\n");
print_rdataset(msg_name, rdataset);
printf("end\n");
    }
    msg_name = NULL;
} while (dns_message_nextname(msg, section) == ISC_R_SUCCESS);
}

void
dump_database(void) {
    dig_message_t * msg;

    for (msg = ISC_LIST_HEAD(chase_message_list); msg != NULL;
         msg = ISC_LIST_NEXT(msg, link)) {
        if (dns_message_firstname(msg->msg, DNS_SECTION_ANSWER)
            == ISC_R_SUCCESS)
            dump_database_section(msg->msg, DNS_SECTION_ANSWER);

        if (dns_message_firstname(msg->msg, DNS_SECTION_AUTHORITY)
            == ISC_R_SUCCESS)
            dump_database_section(msg->msg, DNS_SECTION_AUTHORITY);
    }
if (dns_message_firstname(msg->msg, DNS_SECTION_ADDITIONAL) == ISC_R_SUCCESS) dump_database_section(msg->msg, DNS_SECTION_ADDITIONAL); }

dns_rdataset_t *
search_type(dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers) {
    dns_rdataset_t *rdataset;
    dns_rdata_sig_t siginfo;
    dns_rdata_t sigrdata = DNS_RDATA_INIT;
    isc_result_t result;

    for (rdataset = ISC_LIST_HEAD(name->list); rdataset != NULL; rdataset = ISC_LIST_NEXT(rdataset, link)) {
        if (type == dns_rdatatype_any) {
            if (rdataset->type != dns_rdatatype_rrsig) return (rdataset);
        } else if ((type == dns_rdatatype_rrsig) && (rdataset->type == dns_rdatatype_rrsig)) {
            result = dns_rdataset_first(rdataset);
            check_result(result, "empty rdataset");
            dns_rdataset_current(rdataset, &sigrdata);
            result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
            check_result(result, "sigrdata tostruct siginfo");

            if ((siginfo.covered == covers) || (covers == dns_rdatatype_any)) {
                dns_rdata_reset(&sigrdata);
                dns_rdata_freestruct(&siginfo);
                return (rdataset);
            }
        } else if (rdataset->type == type) return (rdataset);
    }

    return (NULL);
}

dns_rdataset_t *
chase_scanname_section(dns_message_t *msg, dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers, int section) {
    dns_rdataset_t *rdataset;

dns_name_t *msg_name = NULL;

if (msg->counts[section] == 0)
    return (NULL);

do {
    dns_message_currentname(msg, section, &msg_name);
    if (dns_name_compare(msg_name, name) == 0) {
        rdataset = search_type(msg_name, type, covers);
        if (rdataset != NULL)
            return (rdataset);
    }
    msg_name = NULL;
} while (dns_message_nextname(msg, section) == ISC_R_SUCCESS);

return (NULL);
}

dns_rdataset_t *
chase_scanname(dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers)
{
    dns_rdataset_t *rdataset = NULL;
    dig_message_t * msg;

    for (msg = ISC_LIST_HEAD(chase_message_list2);  msg != NULL;
        msg = ISC_LIST_NEXT(msg, link)) {
        if (dns_message_firstname(msg->msg, DNS_SECTION_ANSWER)
            == ISC_R_SUCCESS)
            {rdataset = chase_scanname_section(msg->msg, name,
                type, covers,
                DNS_SECTION_ANSWER);
             if (rdataset != NULL)
                return (rdataset);
            }
        if (dns_message_firstname(msg->msg, DNS_SECTION_AUTHORITY)
            == ISC_R_SUCCESS)
            {rdataset =
                chase_scanname_section(msg->msg, name,
                type, covers,
                DNS_SECTION_AUTHORITY);
             if (rdataset != NULL)
                return (rdataset);
        }
        if (dns_message_firstname(msg->msg, DNS_SECTION_ADDITIONAL)
            == ISC_R_SUCCESS)
            {rdataset =
                chase_scanname_section(msg->msg, name,
                type, covers,
                DNS_SECTION_ADDITIONAL);
             if (rdataset != NULL)
                return (rdataset);
            }
    }
    return (NULL);
}
{  
    rdataset =  
    chase_scanname_section(msg->msg, name, type,  
        covers,  
        DNS_SECTION_ADDITIONAL);  
    if (rdataset != NULL)  
        return (rdataset);  
}  
}  

return (NULL);  
}  

dns_rdataset_t *  
sigchase_scanname(dns_rdatatype_t type, dns_rdatatype_t covers,  
    bool * lookedup, dns_name_t *rdata_name)  
{  
    dig_lookup_t *lookup;  
    isc_buffer_t *b = NULL;  
    isc_region_t r;  
    isc_result_t result;  
    dns_rdataset_t * temp;  
    dns_rdatatype_t querytype;  

    temp = chase_scanname(rdata_name, type, covers);  
    if (temp != NULL)  
        return (temp);  

    if (*lookedup == true)  
        return (NULL);  

    lookup = clone_lookup(current_lookup, true);  
    lookup->trace_root = false;  
    lookup->new_search = true;  

    result = isc_buffer_allocate(mctx, &b, BUFSIZE);  
    check_result(result, "isc_buffer_allocate");  
    result = dns_name_totext(rdata_name, false, b);  
    check_result(result, "dns_name_totext");  
    isc_buffer_usedregion(b, &r);  
    r.base[r.length] = '\0';  
    strlcpy(lookup->textname, (char*)r.base, sizeof(lookup->textname));  
    isc_buffer_free(&b);  

    if (type == dns_rdatatype_rrsig)  
        querytype = covers;  
    else  
        querytype = type;  
}
if (querytype == 0 || querytype == 255) {
    printf("Error in the queried type: \%d\n", querytype);
    return (NULL);
}

lookup->rdtype = querytype;
lookup->rdtypeset = true;
lookup->qrdbuftype = querytype;
*lookedup = true;

ISC_LIST_APPEND(lookup_list, lookup, link);
printf("\n\nLaunch a query to find a RRset of type ");
print_type(type);
printf(" for zone: \%s", lookup->textname);
return (NULL);
}

isc_result_t
insert_trustedkey(void *arg, dns_name_t *name, dns_rdataset_t *rdataset)
{
    isc_result_t result;
    dst_key_t *dstkey;

    UNUSED(arg);

    if (rdataset == NULL || rdataset->type != dns_rdatatype_dnskey)
        return (ISC_R_SUCCESS);
    for (result = dns_rdataset_first(rdataset);
        result == ISC_R_SUCCESS;
        result = dns_rdataset_next(rdataset)) {
        dns_rdata_t rdata = DNS_RDATA_INIT;
        isc_buffer_t b;

        dns_rdataset_current(rdataset, &rdata);
        isc_buffer_init(&b, rdata.data, rdata.length);
        isc_buffer_add(&b, rdata.length);
        if (tk_list.nb_tk >= MAX_TRUSTED_KEY)
            return (ISC_R_SUCCESS);
        dstkey = NULL;
        result = dst_key_fromdns(name, rdata.rdclass, &b, mctx, &dstkey);
        if (result != ISC_R_SUCCESS)
            continue;
        tk_list.key[tk_list.nb_tk++] = dstkey;
    }
    return (ISC_R_SUCCESS);
}
void
clean_trustedkey()
{
    int i = 0;

    for (i= 0; i < MAX_TRUSTED_KEY; i++) {
        if (tk_list.key[i] != NULL) {
            dst_key_free(&tk_list.key[i]);
            tk_list.key[i] = NULL;
        } else
            break;
    }
    tk_list.nb_tk = 0;
    return;
}

char alphnum[] =
    "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";

isc_result_t
removetmpkey(const char *file)
{
    char *tempnamekey = NULL;
    int tempnamekeylen;
    isc_result_t result;

    tempnamekeylen = strlen(file)+10;

    tempnamekey = isc_mem_allocate(mctx, tempnamekeylen);
    if (tempnamekey == NULL)
        return (ISC_R_NOMEMORY);
    memset(tempnamekey, 0, tempnamekeylen);
    strcat(tempnamekey, file);
    strcat(tempnamekey,.key");
    isc_file_remove(tempnamekey);

    result = isc_file_remove(tempnamekey);
    isc_mem_free(mctx, tempnamekey);
    return (result);
}

isc_result_t
get_trusted_key(void) {
    isc_result_t result;
    const char *filename = NULL;
dns_rdatacallbacks_t callbacks;

result = isc_file_exists(trustedkey);
if (result != true) {
    result = isc_file_exists("/etc/trusted-key.key");
    if (result != true) {
        result = isc_file_exists("./trusted-key.key");
        if (result != true)
            return (ISC_R_FAILURE);
        else
            filename = "/trusted-key.key";
    } else
        filename = "/etc/trusted-key.key";
    } else
        filename = trustedkey;

if (filename == NULL) {
    printf("No trusted key\n");
    return (ISC_R_FAILURE);
}

dns_rdatacallbacks_init_stdio(&callbacks);
callbacks.add = insert_trustedkey;
return (dns_master_loadfile(filename, dns_rootname, dns_rootname,
    current_lookup->rdclass, DNS_MASTER_NOTTL,
    &callbacks, mctx));
}

static void
nameFromString(const char *str, dns_name_t *p_ret) {
    size_t len = strlen(str);
    isc_result_t result;
    isc_buffer_t buffer;
    dns_fixedname_t fixedname;

    REQUIRE(p_ret != NULL); 
    REQUIRE(str != NULL);
    isc_buffer_constinit(&buffer, str, len);
    isc_buffer_add(&buffer, len);
    dns_fixedname_init(&fixedname);
    result = dns_name_fromtext(dns_fixedname_name(&fixedname), &buffer,
        dns_rootname, DNS_NAME_DOWNCASE, NULL);
    check_result(result, "nameFromString");

    if (dns_name_dynamic(p_ret))
    {
    ...
free_name(p_ret);

result = dns_name_dup(dns_fixedname_name(&fixedname), mctx, p_ret);
check_result(result, "nameFromString");
}

#if DIG_SIGCHASE_TD
isc_result_t
prepare_lookup(dns_name_t *name)
{
isc_result_t result;
dig_lookup_t *lookup = NULL;
dig_server_t *s;
void *ptr;

lookup = clone_lookup(current_lookup, true);
lookup->trace_root = false;
lookup->new_search = true;
lookup->trace_root_sigchase = false;

strlcpy(lookup->textname, lookup->textnamesigchase, MXNAME);
lookup->rdtype = lookup->rdtype_sigchase;
lookup->rdtypeset = true;
lookup->qrdtype = lookup->qrdtype_sigchase;

s = ISC_LIST_HEAD(lookup->my_server_list);
while (s != NULL) {
    debug("freeing server %p belonging to %p",
            s, lookup);
    ptr = s;
    s = ISC_LIST_NEXT(s, link);
    ISC_LIST_DEQUEUE(lookup->my_server_list,
            (dig_server_t *)ptr, link);
    isc_mem_free(mctx, ptr);
}

for (result = dns_rdataset_first(chase_nsrdataset);
        result == ISC_R_SUCCESS;
        result = dns_rdataset_next(chase_nsrdataset)) {
    char namestr[DNS_NAME_FORMATSIZE];
dns_rdata_ns_t ns;
dns_rdata_t rdata = DNS_RDATA_INIT;
dig_server_t * srv = NULL;
#define __FOLLOW_GLUE__
#endif /* FOLL...
isc_buffer_t *b = NULL;
isc_region_t r;
dns_rdataset_t *rdataset = NULL;
bool t = true;
#endif

memset(namestr, 0, DNS_NAME_FORMATSIZE);
dns_rdataset_current(chase_nsrdataset, &rdata);

result = dns_rdata_tostruct(&rdata, &ns, NULL);
check_result(result, "dns_rdata_tostruct");

#ifdef __FOLLOW_GLUE__

result = advanced_rrsearch(&rdataset, &ns.name,
   dns_rdatatype_aaaa,
   dns_rdatatype_any, &t);
if (result == ISC_R_SUCCESS) {
   for (result = dns_rdataset_first(rdataset);
      result == ISC_R_SUCCESS;
      result = dns_rdataset_next(rdataset)) {
      dns_rdata_t aaaa = DNS_RDATA_INIT;
dns_rdataset_current(rdataset, &aaaa);

      result = isc_buffer_allocate(mctx, &b, 80);
      check_result(result, "isc_buffer_allocate");

      dns_rdata_totext(&aaaa, &ns.name, b);
      isc_buffer_usedregion(b, &r);
r.base[r.length] = '\0';
strlcpy(namestr, (char*)r.base,
   DNS_NAME_FORMATSIZE);
isc_buffer_free(&b);
dns_rdata_reset(&aaaa);

      srv = make_server(namestr, namestr);

      ISC_LIST_APPEND(lookup->my_server_list,
         srv, link);
   }
}
#endif

rdataset = NULL;
result = advanced_rrsearch(&rdataset, &ns.name, dns_rdatatype_a,
   dns_rdatatype_any, &t);
if (result == ISC_R_SUCCESS) {
for (result = dns_rdataset_first(rdataset);
    result == ISC_R_SUCCESS;
    result = dns_rdataset_next(rdataset)) {
    dns_rdata_t a = DNS_RDATA_INIT;
    dns_rdataset_current(rdataset, &a);

    result = isc_buffer_allocate(mctx, &b, 80);
    check_result(result, "isc_buffer_allocate");

    dns_rdata_totext(&a, &ns.name, b);
    isc_buffer_usedregion(b, &r);
    r.base[r.length] = '\0';
    strncpy(namestr, (char*)r.base,
            DNS_NAME_FORMATSIZE);
    isc_buffer_free(&b);
    dns_rdata_reset(&a);
    printf("ns name: %s\n", namestr);

    srv = make_server(namestr, namestr);

   ISC_LIST_APPEND(lookup->my_server_list, srv, link);
    }
    }
#else

dns_name_format(&ns.name, namestr, sizeof(namestr));
printf("ns name: ");
    dns_name_print(&ns.name, stdout);
printf("\n");
    srv = make_server(namestr, namestr);

    ISC_LIST_APPEND(lookup->my_server_list, srv, link);
#endif

dns_rdata_freestruct(&ns);
    dns_rdata_reset(&rdata);

    }

    ISC_LIST_APPEND(lookup_list, lookup, link);
printf("\nLaunch a query to find a RRset of type ");
    print_type(lookup->rdtype);
printf(" for zone: %s", lookup->textname);
printf(" with nameservers:");
printf("\n");
    print_rdataset(name, chase_nsrdataset);
isc_result_t
child_of_zone(dns_name_t * name, dns_name_t * zone_name,
    dns_name_t * child_name)
{
    dns_namereln_t name_reln;
    int orderp;
    unsigned int nlabels;

    name_reln = dns_name_fullcompare(name, zone_name, &orderp, &nlabels);
    if (name_reln != dns_namereln_subdomain ||
        dns_name_countlabels(name) < dns_name_countlabels(zone_name) + 1) {
        printf("\n;; ERROR : ");
        dns_name_print(name, stdout);
        printf(" is not a subdomain of: ");
        dns_name_print(zone_name, stdout);
        printf(" FAILED\n\n");
        return (ISC_R_FAILURE);
    }
    dns_name_getlabelsequence(name, dns_name_countlabels(name) -
        dns_name_countlabels(zone_name) -1,
        dns_name_countlabels(zone_name) +1,
        child_name);
    return (ISC_R_SUCCESS);
}

isc_result_t
grandfather_pb_test(dns_name_t *zone_name, dns_rdataset_t *sigrdataset) {
    dns_rdata_sig_t siginfo;
    dns_rdataset_t mysigrdataset;
    isc_result_t result;

    dns_rdataset_init(&mysigrdataset);
    dns_rdataset_clone(sigrdataset, &mysigrdataset);

    result = dns_rdataset_first(&mysigrdataset);
    check_result(result, "empty RRSIG dataset");

    do {
        dns_rdata_t sigdata = DNS_RDATA_INIT;
        dns_rdataset_current(&mysigrdataset, &sigdata);
        siginfo = dns_rdata_getsiginfo(sigdata);
        // Verify the signature is valid

    } while (result == ISC_R_SUCCESS);
}
result = dns_rdata_tostruct(&sigdata, &signo, NULL);
check_result(result, "sigdata tostruct signo");

if (dns_name_compare(&signo.signer, zone_name) == 0) {
    result = ISC_R_SUCCESS;
    goto cleanup;
}
} while (dns_rdataset_next(&mysigrdataset) == ISC_R_SUCCESS);

result = ISC_R_FAILURE;
cleanup:
    dns_rdataset_disassociate(&mysigrdataset);

    return (result);
}

isc_result_t
initialization(dns_name_t *name)
{
    isc_result_t result;
    bool t = true;

    chase_nsrdataset = NULL;
    result = advanced_rrsearch(&chase_nsrdataset, name, dns_rdatatype_ns,
        dns_rdatatype_any, &t);
    if (result != ISC_R_SUCCESS) {
        printf(";; NS RRset is missing to continue validation:";
            " FAILED
\n\n");
        return (ISC_R_FAILURE);
    }
    INSIST(chase_nsrdataset != NULL);
    prepare_lookup(name);

dup_name(name, &chase_current_name);

    return (ISC_R_SUCCESS);
}
#endif

void
print_rdataset(dns_name_t *name, dns_rdataset_t *rdataset)
{
    isc_result_t *b = NULL;
    isc_result_t result;
    isc_region_t r;
    result = isc_buffer_allocate(mctx, &b, 9000);
check_result(result, "isc_buffer_allocate");

dghost_printrdataset(name, rdataset, b);

isc_buffer_usedregion(b, &r);

r.base[r.length] = '\0';

printf("%s\n", r.base);

isc_buffer_free(&b);

}

void
dup_name(dns_name_t *source, dns_name_t *target) {

isc_result_t result;

if (dns_name_dynamic(target))

free_name(target);

result = dns_name_dup(source, mctx, target);

check_result(result, "dns_name_dup");

}

void
free_name(dns_name_t *name) {

dns_name_free(name, mctx);

dns_name_init(name, NULL);

}

/*
 *
* take a DNSKEY RRset and the RRSIG RRset corresponding in parameter
* return ISC_R_SUCCESS if the DNSKEY RRset contains a trusted_key
* and the RRset is valid
* return ISC_R_NOTFOUND if not contains trusted key
* or if the RRset isn't valid
* return ISC_R_FAILURE if problem
*
*/

isc_result_t
contains_trusted_key(dns_name_t *name, dns_rdataset_t *rdataset,

dns_rdataset_t *sigrdataset)
{

dns_rdataset_t myrdataset;

dst_key_t *dnsseckey = NULL;

int i;

isc_result_t result;
if (name == NULL || rdataset == NULL)
return (ISC_R_FAILURE);

dns_rdataset_init(&myrdataset);
dns_rdataset_clone(rdataset, &myrdataset);

result = dns_rdataset_first(&myrdataset);
check_result(result, "empty rdataset");

do {
    dns_rdata_t rdata = DNS_RDATA_INIT;

dns_rdataset_current(&myrdataset, &rdata);
INSIST(rdata.type == dns_rdatatype_dnskey);

result = dns_dnssec_keyfromrdata(name, &rdata,
mctx, &dnsseckey);
check_result(result, "dns_dnssec_keyfromrdata");

for (i = 0; i < tk_list.nb_tk; i++) {
    if (dst_key_compare(tk_list.key[i], dnsseckey) == true) {
        dns_rdata_reset(&rdata);
        printf(";; Ok, find a Trusted Key in the "
              "DNSKEY RRset: %d\n",
              dst_key_id(dnsseckey));
        result = sigchase_verify_sig_key(name, rdataset,
dnsseckey,
sigrdataset);
        if (result == ISC_R_SUCCESS)
goto cleanup;
    }
}
}
dst_key_free(&dnsseckey);
} while (dns_rdataset_next(&myrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
if (dnsseckey != NULL)
dst_key_free(&dnsseckey);
dns_rdataset_disassociate(&myrdataset);

return (result);
isc_result_t
sigchase_verify_sig(dns_name_t *name, dns_rdataset_t *rdataset,
   dns_rdataset_t *keyrdataset,
   dns_rdataset_t *sigrdataset)
{
    dns_rdataset_t mykeyrdataset;
    dst_key_t *dnsseckey = NULL;
    isc_result_t result;

    dns_rdataset_init(&mykeyrdataset);
    dns_rdataset_clone(keyrdataset, &mykeyrdataset);

    result = dns_rdataset_first(&mykeyrdataset);
    check_result(result, "empty DNSKEY dataset");

    do {
      dns_rdata_t keyrdata = DNS_RDATA_INIT;

      dns_rdataset_current(&mykeyrdataset, &keyrdata);
      INSIST(keyrdata.type == dns_rdatatype_dnskey);

      result = dns_dnssec_keyfromrdata(name, &keyrdata,
                                       mctx, &dnsseckey);
      check_result(result, "dns_dnssec_keyfromrdata");

      result = sigchase_verify_sig_key(name, rdataset, dnsseckey,
                                       sigrdataset);
      if (result == ISC_R_SUCCESS)
        goto cleanup;
      dst_key_free(&dnsseckey);
    } while (dns_rdataset_next(&mykeyrdataset) == ISC_R_SUCCESS);

    result = ISC_R_NOTFOUND;

    cleanup:
    if (dnsseckey != NULL)
      dst_key_free(&dnsseckey);
    dns_rdataset_disassociate(&mykeyrdataset);

    return (result);
  }

isc_result_t
sigchase_verify_sig_key(dns_name_t *name, dns_rdataset_t *rdataset,
                        dst_key_t *dnsseckey, dns_rdataset_t *sigrdataset)
{
    dns_rdata_sig_t siginfo;
    dns_rdataset_t myrdataset;
dns_rdataset_t mysigrdataset;
isc_result_t result;

dns_rdataset_init(&myrdataset);
dns_rdataset_clone(rdataset, &myrdataset);
dns_rdataset_init(&mysigrdataset);
dns_rdataset_clone(sigdataset, &mysigrdataset);

result = dns_rdataset_first(&mysigrdataset);
check_result(result, "empty RRSIG dataset");

do {
    dns_rdata_t sigdata = DNS_RDATA_INIT;
    dns_rdataset_current(&mysigrdataset, &sigdata);

    result = dns_rdata_tosruct(&sigdata, &siginfo, NULL);
    check_result(result, "sigdata tostruct siginfo");

    /*
     * Test if the id of the DNSKEY is
     * the id of the DNSKEY signer's
     */
    if (siginfo.keyid == dst_key_id(dnsseckey)) {

        result = dns_rdataset_first(&myrdataset);
        check_result(result, "empty DS dataset");

        result = dns_dnssec_verify(name, &myrdataset, dnsseckey,
            false, mctx, &sigdata);

        printf(";; VERIFYING ");
        print_type(rdataset->type);
        printf(" RRset for ");
        dns_name_print(name, stdout);
        printf(" with DNSKEY:%d: %s\n", dst_key_id(dnsseckey),
            isc_result_totext(result));

        if (result == ISC_R_SUCCESS)
            goto cleanup;
    } while (dns_rdataset_next(&mysigrdataset) == ISC_R_SUCCESS);

    result = ISC_R_NOTFOUND;

    cleanup:
    dns_rdataset_disassociate(&myrdataset);
    dns_rdataset_disassociate(&mysigrdataset);
isc_result_t

isc_result_t sigchase_verify_ds(dns_name_t *name, dns_rdataset_t *keyrdataset,
     dns_rdataset_t *dsrdataset)
{
    dst_key_t *dnsseckey = NULL;
    isc_result_t result;
    unsigned char dsbuf[DNS_DS_BUFFERSIZE];

    dns_rdataset_init(&mydsrdataset);
    dns_rdataset_clone(dsrdataset, &mydsrdataset);
    dns_rdataset_init(&mykeyrdataset);
    dns_rdataset_clone(keyrdataset, &mykeyrdataset);

    result = dns_rdataset_first(&mydsrdataset);
    check_result(result, "empty DSset dataset");
    do {
        dns_rdata_t dsrdata = DNS_RDATA_INIT;
        dns_rdataset_current(&mydsrdataset, &dsrdata);
        result = dns_rdata_tostruct(&dsrdata, &dsinfo, NULL);
        check_result(result, "dns_rdata_tostruct for DS");

        result = dns_rdataset_first(&mykeyrdataset);
        check_result(result, "empty KEY dataset");
        do {
            dns_rdata_t keyrdata = DNS_RDATA_INIT;
            dns_rdataset_current(&mykeyrdataset, &keyrdata);
            INSIST(keyrdata.type == dns_rdatatype_dnskey);
        } /* Test if the id of the DNSKEY is the */
            /* id of DNSKEY referenced by the DS */
}
if (dsinfo.key_tag == dst_key_id(dnsseckey)) {
    dns_rdata_t newdsrdata = DNS_RDATA_INIT;

    result = dns_ds_buildrdata(name, &keyrdata,
        dsinfo.digest_type,
        dsbuf, &newdsrdata);
    dns_rdata_freestruct(&dsinfo);

    if (result != ISC_R_SUCCESS) {
        printf("Oops: impossible to build"
            " new DS rdata\n");
        goto cleanup;
    }

    if (dns_rdata_compare(&dsrdata,
        &newdsrdata) == 0) {
        printf(";; OK a DS valids a DNSKEY"
            " in the RRset\n");
        printf(";; Now verify that this"
            " DNSKEY validates the "
            "DNSKEY RRset\n");

        result = sigchase_verify_sig_key(name,
            keyrdataset,
            dnsseckey,
            chase_sigkeyrdataset);
        if (result == ISC_R_SUCCESS)
            goto cleanup;
    } else {
        printf(";; This DS is NOT the DS for"
            " the chasing KEY: FAILED\n");
    }
    dst_key_free(&dnsseckey);
} while (dns_rdataset_next(&mykeyrdataset) == ISC_R_SUCCESS);
} while (dns_rdataset_next(&mydsrdataset) == ISC_R_SUCCESS);

result = ISC_R_NOTFOUND;

cleanup:
if (dnsseckey != NULL)
    dst_key_free(&dnsseckey);
dns_rdataset_disassociate(&mydsrdataset);
dns_rdataset_disassociate(&mykeyrdataset);

return (result);
/* * take a pointer on a rdataset in parameter and try to resolv it. * the searched rrset is a rrset on 'name' with type 'type' * (and if the type is a rrsig the signature cover 'covers'). * the looked up is to known if you have already done the query on the net. * ISC_R_SUCCESS: if we found the rrset * ISC_R_NOTFOUND: we do not found the rrset in cache * and we do a query on the net * ISC_R_FAILURE: rrset not found */
isc_result_t advanced_rrsearch(dns_rdataset_t **rdataset, dns_name_t *name, dns_rdatatype_t type, dns_rdatatype_t covers, bool *lookedup) {
    bool tmplookedup;
    INSIST(rdataset != NULL);
    if (*rdataset != NULL)
        return (ISC_R_SUCCESS);
    tmplookedup = *lookedup;
    if ((*rdataset = sigchase_scanname(type, covers, lookedup, name)) == NULL) {
        if (tmplookedup)
            return (ISC_R_FAILURE);
        return (ISC_R_NOTFOUND);
    }
    *lookedup = false;
    return (ISC_R_SUCCESS);
}

#if DIG_SIGCHASE_TD
void sigchase_td(dns_message_t *msg) {
    isc_result_t result;
    dns_name_t *name = NULL;
    bool have_answer = false;
    bool t = true;
    if (msg->rcode != dns_rcode_noerror &&
        msg->rcode != dns_rcode_nxdomain) {
char buf[20];
isc_buffer_t b;

isc_buffer_init(&b, buf, sizeof(buf));
result = dns_rcode_totext(msg->rcode, &b);
check_result(result, "dns_rcode_totext failed");
printf("error response code \%.\*s\n",
        (int)isc_buffer_usedlength(&b), buf);
error_message = msg;
return;
}

if ((result = dns_message_firstname(msg, DNS_SECTION_ANSWER))
    == ISC_R_SUCCESS) {
dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
if (current_lookup->trace_root_sigchase) {
    initialization(name);
    return;
} else {
    have_answer = true;

    if (!current_lookup->trace_root_sigchase) {
        result = dns_message_firstname(msg,
            DNS_SECTION_AUTHORITY);
        if (result != ISC_R_SUCCESS) {
            printf("no answer or authority section\n");
            error_message = msg;
            return;
        }
        dns_message_currentname(msg, DNS_SECTION_AUTHORITY, &name);
        chase_nsrdataset
            = chase_scannamename_section(msg, name,
            dns_rdatatype_ns,
            dns_rdatatype_any,
            DNS_SECTION_AUTHORITY);
        dup_name(name, &chase_authority_name);
        if (chase_nsrdataset != NULL) {
            have_delegation_ns = true;
            printf("no response but there is a delegation
"            " in authority section: ");
            dns_name_print(name, stdout);
            printf("\n");
        } else {
            println("no response and no delegation in 
"            "authority section but a reference
"            " to: ");
            dns_name_print(name, stdout);
        }
    } else {
        printf("error response code \%.\*s\n",
            (int)isc_buffer_usedlength(&b), buf);
        have_answer = true;
        have_delegation_ns = true;
        name = name_from_authority(msg, &chase_authority_name);
        if (name) {
            printf("response from: ");
            dns_name_print(name, stdout);
            printf("\n");
        } else {
            printf("no response and no delegation in 
"            "authority section but a reference
"            " to: ");
            dns_name_print(name, stdout);
        }
    }
} else {
    if (current_lookup->trace_root_sigchase) {
        initialization(name);
        return;
    } else {
        printf("error response code \%.\*s\n",
            (int)isc_buffer_usedlength(&b), buf);
        has_answer = true;
        have_delegation_ns = true;
    }
}
printf("\n");
error_message = msg;
}
} else {
printf(";; NO ANSWERS: %s\n",
    isc_result_totext(result));
free_name(&chase_name);
clean_trustedkey();
return;
}

if (have_answer) {
    chase_rdataset = chase_scanname_section(msg, &chase_name,
        current_lookup
        ->rdtype_sigchase,
        dns_rdatatype_any,
        DNS_SECTION_ANSWER);
    if (chase_rdataset != NULL)
        have_response = true;
}

result = advanced_rrsearch(&chase_keyrdataset,
    &chase_current_name,
    dns_rdatatype_dnskey,
    dns_rdatatype_any,
    &chase_keylookedup);
if (result == ISC_R_FAILURE) {
    printf("\n;; DNSKEY is missing to continue validation:"
        " FAILED\n\n");
goto cleanandgo;
}
if (result == ISC_R_NOTFOUND)
    return;
INSIST(chase_keyrdataset != NULL);
printf("\n;; DNSKEYset:"
    " FAILED\n\n");
print_rdataset(&chase_current_name, chase_keyrdataset);

result = advanced_rrsearch(&chase_sigkeyrdataset,
    &chase_current_name,
    dns_rdatatype_rrsig,
    dns_rdatatype_dnskey,
    &chase_sigkeylookedup);
if (result == ISC_R_FAILURE) {
    printf("\n;; RRSIG of DNSKEY is missing to continue validation:"
        " FAILED\n\n");
}
"FAILED

); goto cleanandgo;
} 
if (result == ISC_R_NOTFOUND)
return;
INSIST(chase_sigkeyrdataset != NULL);
printf("\n;; RRSIG of the DNSKEYset:\n");
print_rdataset(&chase_current_name , chase_sigkeyrdataset);

if (!chase_dslookedup && !chase_nslookedup) {
if (!delegation_follow) {
result = contains_trusted_key(&chase_current_name,
    chase_keyrdataset,
    chase_sigkeyrdataset);
} else {
INSIST(chase_dsrdataset != NULL);
INSIST(chase_sigdsrdataset != NULL);
result = sigchase_verify_ds(&chase_current_name,
    chase_keyrdataset,
    chase_dsrdataset);
}

if (result != ISC_R_SUCCESS) {
printf("\n;; chain of trust can't be validated:" 
    " FAILED\n\n");
goto cleanandgo;
} else {
    chase_dsrdataset = NULL;
    chase_sigdsrdataset = NULL;
}

if (have_response || (!have_delegation_ns && !have_response)) {
/* test if it's a grand father case */

if (have_response) {
result = advanced_rrsearch(&chase_sigrdataset,
    &chase_name,
    dns_rdatatype_rrsig,
    current_lookup
    ->rdtype_sigchase,
    &t);
if (result == ISC_R_FAILURE) {
printf("\n;; RRset is missing to continue"
    " validation SHOULD NOT APPEND:" 
    " FAILED\n\n");
goto cleanandgo;
} else {
    chase_dsrdataset = NULL;
    chase_sigdsrdataset = NULL;
} 
}
else {
    result = advanced_rrsearch(&chase_sigrdataset,
                              &chase_authority_name,
                              dns_rdatatype_rrsig,
                              dns_rdatatype_any,
                              &t);
    if (result == ISC_R_FAILURE) {
        printf("; RRSIG is missing to continue"
               " validation SHOULD NOT APPEND:"
               " FAILED\n"");
        goto cleanandgo;
    }

    result = grandfather_pb_test(&chase_current_name,
                                 chase_sigrdataset);
    if (result != ISC_R_SUCCESS) {
        dns_name_t tmp_name;

        printf("; We are in a Grand Father Problem:
               " See 2.2.1 in RFC 3658\n");
        chase_rdataset = NULL;
        chase_sigrdataset = NULL;
        have_response = false;
        have_delegation_ns = false;

        dns_name_init(&tmp_name, NULL);
        result = child_of_zone(&chase_name, &chase_current_name,
                               &tmp_name);
        if (result != ISC_R_SUCCESS)
            goto cleanandgo;
        if (dns_name_dynamic(&chase_authority_name))
            free_name(&chase_authority_name);
        dup_name(&tmp_name, &chase_authority_name);
        printf("; and we try to continue chain of trust"
               " validation of the zone: ");
        dns_name_print(&chase_authority_name, stdout);
        printf("\n");
        have_delegation_ns = true;
    } else {
        if (have_response)
            goto finalstep;
        else
            chase_sigrdataset = NULL;
    }
}

}
if (have_delegation_ns) {
    chase_nsrdataset = NULL;
    result = advanced_rsearch(chase_nsrdataset,
                              &chase_authority_name,
                              dns_rdatatype_ns,
                              dns_rdatatype_any,
                              &chase_nslookedup);
    if (result == ISC_R_FAILURE) {
        printf(";;NSset is missing to continue validation:")
              " FAILED

    "
        goto cleanandgo;
    }
    if (result == ISC_R_NOTFOUND) {
        return;
    }
    INSIST(chase_nsrdataset != NULL);
    result = advanced_rsearch(chase_dsrdataset,
                              &chase_authority_name,
                              dns_rdatatype_ds,
                              dns_rdatatype_any,
                              &chase_dslookedup);
    if (result == ISC_R_FAILURE) {
        printf(";; DSset is missing to continue validation:")
              " FAILED

    "
        goto cleanandgo;
    }
    if (result == ISC_R_NOTFOUND) {
        return;
    }
    INSIST(chase_dsrdataset != NULL);
    printf(";; DSset:
    ");
    print_rdataset(&chase_authority_name, chase_dsrdataset);
    result = advanced_rsearch(chase_sigdsrdataset,
                              &chase_authority_name,
                              dns_rdatatype_rrsig,
                              dns_rdatatype_ds,
                              &t);
    if (result != ISC_R_SUCCESS) {
        printf(";; DSset is missing to continue validation:")
              " FAILED

    "
        goto cleanandgo;
    }
    printf(";; RRSIGset of DSset
    ");
    print_rdataset(&chase_authority_name, chase_sigdsrdataset);
    INSIST(chase_sigdsrdataset != NULL);
    result = sigchase_verify_sig(&chase_authority_name,
chase_dsrdataset,
chase_keyrdataset,
chase_sigsdsrdataset);
if (result != ISC_R_SUCCESS) {
    printf("\n;; Impossible to verify the DSset:"
            " FAILED\n\n");
goto cleanandgo;
}  
chase_keyrdataset = NULL;
chase_sigsdsrdataset = NULL;

prepare_lookup(&chase_authority_name);

have_response = false;
have_delegation_ns = false;
devigation_follow = true;
error_message = NULL;
dup_name(&chase_authority_name, &chase_current_name);
free_name(&chase_authority_name);
return;
}

if (error_message != NULL) {
    dns_rdataset_t *rdataset;
    dns_rdataset_t *sigrdataset;
    dns_name_t rdata_name;
    isc_result_t ret = ISC_R_FAILURE;

dns_name_init(&rdata_name, NULL);
result = prove_nx(error_message, &chase_name,
        current_lookup->rdclass_sigchase,
        current_lookup->rdtype_sigchase, &rdata_name,
        &rdataset, &sigrdataset);
if (rdataset == NULL || sigrdataset == NULL ||
    dns_name_countlabels(&rdata_name) == 0) {
    printf("\n;; Impossible to verify the non-existence,"
            " the NSEC RRset can't be validated:"
            " FAILED\n\n");
goto cleanandgo;
}
ret = sigchase_verify_sig(&rdata_name, rdataset,
        chase_keyrdataset,
        sigrdataset);
if (ret != ISC_R_SUCCESS) {
    free_name(&rdata_name);
    printf("\n;; Impossible to verify the NSEC RR to prove"
" the non-existence : FAILED\n\n"; goto cleanandgo;
}
free_name(&rdata_name);
if (result != ISC_R_SUCCESS) {
    printf("\n; Impossible to verify the non-existence:");
    " FAILED\n\n"; goto cleanandgo;
} else {
    printf("\n; OK the query doesn't have response but" 
    " we have validate this fact : SUCCESS\n\n"; goto cleanandgo;
}
}
}

cleanandgo:
printf(";; cleanandgo \n");
if (dns_name_dynamic(&chase_current_name))
    free_name(&chase_current_name);
if (dns_name_dynamic(&chase_authority_name))
    free_name(&chase_authority_name);
clean_trustedkey();
return;

finalstep :
result = advanced_rrsearch(&chase_rdataset, &chase_name, 
    current_lookup->rdtype_sigchase, 
    dns_rdatatype_any , 
    &t);
if (result == ISC_R_FAILURE) {
    printf("\n; RRsig of RRset is missing to continue validation" 
    " SHOULD NOT APPEND: FAILED\n\n"; goto cleanandgo;
}
result = sigchase_verify_sig(&chase_name, chase_rdataset, 
    chase_keyrdataset, 
    chase_sigrdataset);
if (result != ISC_R_SUCCESS) {
    printf("\n; Impossible to verify the RRset : FAILED\n\n"); /*
    printf("\nRRset:\n");
    print_rdataset(&chase_name , chase_rdataset);
    printf("\nDNSKEYset:\n");
    print_rdataset(&chase_name , chase_keyrdataset);
    printf("\nRRSIG of RRset:\n");
    print_rdataset(&chase_name , chase_sigrdataset);
    printf("\n"); */
goto cleanandgo;
} else {
    printf("\n; The Answer:\n");
    print_rdataset(&chase_name, chase_rdataset);

    printf("\n; FINISH : we have validate the DNSSEC chain"
            " of trust: SUCCESS\n\n");
    goto cleanandgo;
}

#endif

#if DIG_SIGCHASE_BU

isc_result_t
getneededrr(dns_message_t *msg)
{
    isc_result_t result;
    dns_name_t *name = NULL;
    dns_rdata_t sigrdata = DNS_RDATA_INIT;
    dns_rdata_sig_t siginfo;
    bool t = true;

    if ((result = dns_message_firstname(msg, DNS_SECTION_ANSWER))
        != ISC_R_SUCCESS) {
        printf("\n; NO ANSWERS: %s\n", isc_result_totext(result));
    } else {
        dns_message_currentname(msg, DNS_SECTION_ANSWER, &name);
        /* What do we chase? */
        if (chase_rdataset == NULL) {
            result = advanced_rrsearch(&chase_rdataset, name,
                                         dns_rdatatype_any,
                                         dns_rdatatype_any, &t);
            if (result != ISC_R_SUCCESS) {
                printf("\n; No Answers: Validation FAILED\n\n");
                return (ISC_R_NOTFOUND);
            }
            dup_name(name, &chase_name);
            printf("\n; RRset to chase:\n");
            print_rdataset(&chase_name, chase_rdataset);
        }
    }
}

/* What do we chase? */
if (chase_rdataset == NULL) {
    result = advanced_rrsearch(&chase_rdataset, name,
                                dns_rdatatype_any,
                                dns_rdatatype_any, &t);
    if (result != ISC_R_SUCCESS) {
        printf("\n; No Answers: Validation FAILED\n\n");
        return (ISC_R_NOTFOUND);
    }
    dup_name(name, &chase_name);
    printf("\n; RRset to chase:\n");
    print_rdataset(&chase_name, chase_rdataset);
}
INSIST(chase_rdataset != NULL);

if (chase_sigrdataset == NULL) {
    result = advanced_rrsearch(&chase_sigrdataset, name,
        dns_rdatatype_rrsig,
        chase_rdataset->type,
        &chase_siglookedup);
    if (result == ISC_R_FAILURE) {
        printf("\n;; RRSIG is missing for continue validation:
            " FAILED\n\n");
        if (dns_name_dynamic(&chase_name))
            free_name(&chase_name);
        return (ISC_R_NOTFOUND);
    }
    if (result == ISC_R_NOTFOUND) {
        return (ISC_R_NOTFOUND);
    }
    printf("\n;; RRSIG of the RRset to chase:\n");
    print_rdataset(&chase_name, chase_sigrdataset);
}
INSIST(chase_sigrdataset != NULL);

/* first find the DNSKEY name */
result = dns_rdataset_first(chase_sigrdataset);
check_result(result, "empty RRSIG dataset");
dns_rdataset_current(chase_sigrdataset, &sigrdata);
result = dns_rdata_tostruct(&sigrdata, &siginfo, NULL);
check_result(result, "sigrdata tostruct siginfo");
dup_name(&siginfo.signer, &chase_signame);
dns_rdata_freestruct(&siginfo);
dns_rdata_reset(&sigrdata);
/* Do we have a key? */
if (chase_keyrdataset == NULL) {
    result = advanced_rrsearch(&chase_keyrdataset,
        &chase_signame,
        dns_rdatatype_dnskey,
        dns_rdatatype_any,
        &chase_keylookedup);
    if (result == ISC_R_FAILURE) {
        printf("\n;; DNSKEY is missing to continue validation:
            " FAILED\n\n");
        free_name(&chase_signame);
        if (dns_name_dynamic(&chase_name))
            free_name(&chase_name);
        return (ISC_R_NOTFOUND);
if (result == ISC_R_NOTFOUND) {
    free_name(&chase_signame);
    return (ISC_R_NOTFOUND);
}
printf("\n;; DNSKEYset that signs the RRset to chase:\n");
print_rdataset(&chase_signame, chase_keyrdataset);
} INSIST(chase_keyrdataset != NULL);

if (chase_sigkeyrdataset == NULL) {
    result = advanced_rrsearch(&chase_sigkeyrdataset,
        &chase_signame,
        dns_rdatatype_rrsig,
        dns_rdatatype_dnskey,
        &chase_sigkeylookedup);
    if (result == ISC_R_FAILURE) {
        printf("\n;; RRSIG for DNSKEY is missing to continue\n        " validation : FAILED\n\n");
        free_name(&chase_signame);
        if (dns_name_dynamic(&chase_name))
            free_name(&chase_name);
        return (ISC_R_NOTFOUND);
    }
    if (result == ISC_R_NOTFOUND) {
        free_name(&chase_signame);
        return (ISC_R_NOTFOUND);
    }
    printf("\n;; RRSIG of the DNSKEYset that signs the "
        "RRset to chase:\n");
    print_rdataset(&chase_signame, chase_sigkeyrdataset);
} INSIST(chase_sigkeyrdataset != NULL);

if (chase_dsrdataset == NULL) {
    result = advanced_rrsearch(&chase_dsrdataset, &chase_signame,
        dns_rdatatype_ds, dns_rdatatype_any,
        &chase_dslookedup);
    if (result == ISC_R_FAILURE) {
        printf("\n;; WARNING There is no DS for the zone: ");
        dns_name_print(&chase_signame, stdout);
        printf("\n");
    }
    if (result == ISC_R_NOTFOUND) {
        free_name(&chase_signame);
        return (ISC_R_NOTFOUND);
    }
    printf("\n")};
}
if (chase_dsrdataset != NULL) {
    printf(";; DSset of the DNSKEYset\n");
    print_rdataset(&chase_signame, chase_dsrdataset);
}

if (chase_dsrdataset != NULL) {
/*
  * if there is no RRSIG of DS,
  * we don't want to search on the network
  */
result = advanced_rrsearch(&chase_sigsrdsdataset,
    &chase_signame,
    dns_rdatatype_rrsig,
    dns_rdatatype_ds, &t);
if (result == ISC_R_FAILURE) {
    printf(";; WARNING : NO RRSIG DS : RRSIG DS" 
      " should come with DS\n");
/*
  * We continue even the DS couldn't be validated,
  * because the DNSKEY could be a Trusted Key.
  */
    chase_dsrdataset = NULL;
} else {
    printf(";; RRSIG of the DSset of the DNSKEYset\n");
    print_rdataset(&chase_signame, chase_sigsrdsdataset);
}
}
return (1);
}

void
sigchase_bu(dns_message_t *msg)
{
    isc_result_t result;
    int ret;

    if (tk_list.nb_tk == 0) {
        result = get_trusted_key();
        if (result != ISC_R_SUCCESS) {
            printf("No trusted keys present\n");
            return;
        }
    }
ret = getneededrr(msg);
if (ret == ISC_R_NOTFOUND)
    return;

if (ret == ISC_R_ADDRNOTAVAIL) {
    /* We have no response */
    dns_rdataset_t *rdataset;
    dns_rdataset_t *sigrdataset;
    dns_name_t rdata_name;
    dns_name_t query_name;

dns_name_init(&query_name, NULL);
    dns_name_init(&rdata_name, NULL);
    nameFromString(current_lookup->textname, &query_name);

    result = prove_nx(msg, &query_name, current_lookup->rdclass,
                      current_lookup->rdtype, &rdata_name,
                      &rdataset, &sigrdataset);
    free_name(&query_name);
    if (rdataset == NULL || sigrdataset == NULL ||
        dns_name_countlabels(&rdata_name) == 0) {
        printf(";; Impossible to verify the Non-existence,
              " " the NSEC RRset can't be validated: 
              " "FAILED\n\n") ;
        clean_trustedkey();
        return;
    }

    if (result != ISC_R_SUCCESS) {
        printf(";; No Answers and impossible to prove the"
               " unsecurity : Validation FAILED\n\n") ;
        clean_trustedkey();
        return;
    }

    printf(";; An NSEC prove the non-existence of a answers,
           " " Now we want validate this NSEC\n") ;

dup_name(&rdata_name, &chase_name);
    free_name(&rdata_name);
    chase_rdataset = rdataset;
    chase_sigrdataset = sigrdataset;
    chase_keyrdataset = NULL;
    chase_sigkeyrdataset = NULL;
    chase_dsrdataset = NULL;
    chase_sigsdataset = NULL;
    chase_siglookedup = false;
    chase_keylookedup = false;
chase_dslookedup = false;
chase_sigsdslookedup = false;
sigchase(msg);
clean_trustedkey();
return;
}

printf("\n\n\n;; WE HAVE MATERIAL, WE NOW DO VALIDATION\n");

result = sigchase_verify_sig(&chase_name, chase_rdataset,
    chase_keyrdataset,
    chase_sigrdataset);
if (result != ISC_R_SUCCESS) {
    free_name(&chase_name);
    free_name(&chase_signame);
    printf(";; No DNSKEY is valid to check the RRSIG" 
    " of the RRsset: FAILED\n");
clean_trustedkey();
    return;
}
printf(";; OK We found DNSKEY (or more) to validate the RRsset\n");

result = contains_trusted_key(&chase_signame, chase_keyrdataset,
    chase_sigkeyrdataset);
if (result == ISC_R_SUCCESS) {
    free_name(&chase_name);
    free_name(&chase_signame);
    printf("\n\n;; Ok this DNSKEY is a Trusted Key," 
    " DNSSEC validation is ok: SUCCESS\n");
clean_trustedkey();
    return;
}

printf(";; Now, we are going to validate this DNSKEY by the DS\n");

if (chase_dsrdataset == NULL) {
    free_name(&chase_name);
    free_name(&chase_signame);
    printf(";; the DNSKEY isn't trusted-key and there isn't" 
    " DS to validate the DNSKEY: FAILED\n");
clean_trustedkey();
    return;
}

result =  sigchase_verify_ds(&chase_signame, chase_keyrdataset,
    chase_dsrdataset);
if (result != ISC_R_SUCCESS) {
    free_name(&chase_name);
    free_name(&chase_keyrdataset);
    free_name(&chase_dsrdataset);
    printf(";; DS to validate the DNSKEY: FAILED\n");
clean_trustedkey();
    return;
}
free_name(&chase_signame);
free_name(&chase_name);
printf(";; ERROR no DS validates a DNSKEY in the"
   " DNSKEY RRset: FAILED\n");
clean_trustedkey();
return;
} else
printf(";; OK this DNSKEY (validated by the DS) validates"
   " the RRset of the DNSKEYs, thus the DNSKEY validates"
   " the RRset\n");
INSIST(chase_sigdsrdataset != NULL);

dup_name(&chase_signame, &chase_name);
free_name(&chase_signame);
chase_rdataset = chase_dsrdataset;
chase_signdataset = chase_sigdsrdataset;
chase_keyrdataset = NULL;
chase_sigkeyrdataset = NULL;
chase_dsrdataset = NULL;
chase_sigdsrdataset = NULL;
chase_sigrdataset = chase_sigrdataset = false;
chase_dsllookedup = chase_sigrlookedup = false;

printf(";; Now, we want to validate the DS : recursive call\n");
sigchase(msg);
return;
}
#endif

void
sigchase(dns_message_t *msg) {
#if DIG_SIGCHASE_TD
if (current_lookup->do_topdown) {
sigchase_td(msg);
return;
}
#endif
#if DIG_SIGCHASE_BU
sigchase_bu(msg);
return;
#endif
}

/*
 * return 1  if name1  <  name2
 *  0  if name1  == name2
 * -1 if name1  >  name2
 */
int inf_name(dns_name_t *name1, dns_name_t *name2)
{
    dns_label_t label1;
    dns_label_t label2;
    unsigned int nlabel1;
    unsigned int nlabel2;
    int min_lum_label;
    int i;
    int ret = -2;

    nlabel1 = dns_name_countlabels(name1);
    nlabel2 = dns_name_countlabels(name2);

    if (nlabel1 >= nlabel2)
        min_lum_label = nlabel2;
    else
        min_lum_label = nlabel1;

    for (i=1 ; i < min_lum_label; i++) {
        dns_name_getlabel(name1, nlabel1 -1 - i, &label1);
        dns_name_getlabel(name2, nlabel2 -1 - i, &label2);
        if ((ret = isc_region_compare(&label1, &label2)) != 0) {
            if (ret < 0)
                return (-1);
            else if (ret > 0)
                return (1);
        }
    }

    if (nlabel1 == nlabel2)
        return (0);

    if (nlabel1 < nlabel2)
        return (-1);
    else
        return (1);
}

/**
 *  *
 *  *
 */
isc_result_t
prove_nx_domain(dns_message_t *msg,
if ((result = dns_message_firstname(msg, DNS_SECTION_AUTHORITY))
    != ISC_R_SUCCESS) {
    printf(";; nothing in authority section : impossible to"
          " validate the non-existence : FAILED\n");
    return (ISC_R_FAILURE);
}

do {
    nsecname = NULL;
    dns_message_currentname(msg, DNS_SECTION_AUTHORITY, &nsecname);
    nsecset = search_type(nsecname, dns_rdatatype_nsec,
                          dns_rdatatype_any);
    if (nsecset == NULL) continue;
}

printf("There is a NSEC for this zone in the"
       " AUTHORITY section:\n");
print_rdataset(nsecname, nsecset);

for (result = dns_rdataset_first(nsecset);
     result == ISC_R_SUCCESS;
     result = dns_rdataset_next(nsecset)) {
    dns_rdataset_current(nsecset, &nsec);
    signsecset = chase_scanname_section(msg, nsecname,
                                        dns_rdatatype_rrsig,
                                        dns_rdatatype_nsec,
                                        DNS_SECTION_AUTHORITY);
    if (signsecset == NULL) {
        printf(";; no RRSIG NSEC in authority section:""
               " impossible to validate the "
               "non-existence: FAILED\n");
        return (ISC_R_FAILURE);
    }
}
ret = dns_rdata_tostruct(&nsec, &nsecstruct, NULL);
check_result(ret,"dns_rdata_tostruct");

if (!((inf_name(nsecname, &nsecstruct.next) == 1 &&
       inf_name(name, &nsecstruct.next) == 1) ||
       (inf_name(name, nsecname) == 1 &&
        inf_name(&nsecstruct.next, name) == 1)) {
    dns_rdata_freestruct(&nsecstruct);
    *rdataset = nsecset;
    *sigrdataset = signsecset;
    dup_name(nsecname, rdata_name);
    return (ISC_R_SUCCESS);
}

dns_rdata_freestruct(&nsecstruct);
dns_rdata_reset(&nsec);
}
} while (dns_message_nextname(msg, DNS_SECTION_AUTHORITY)
        == ISC_R_SUCCESS);

*rdataset = NULL;
*sigrdataset = NULL;
rdata_name = NULL;
return (ISC_R_FAILURE);
}

/**
 *
 *
 *
 *
 */
isc_result_t
prove_nx_type(dns_message_t *msg, dns_name_t *name, dns_rdataset_t *nsecset,
              dns_rdataclass_t rdclass, dns_rdatatype_t type,
              dns_name_t *rdata_name, dns_rdataset_t **rdataset,
              dns_rdataset_t **sigrdataset)
{
    isc_result_t ret;
    dns_rdataset_t *signsecset;
    dns_rdata_t nsec = DNS_RDATA_INIT;

    UNUSED(rdclass);

    ret = dns_rdataset_first(nsecset);
check_result(ret,"dns_rdataset_first");

dns_rdataset_current(nsecset, &nsec);

ret = dns_nsec_typepresent(&nsec, type);
if (ret == ISC_R_SUCCESS)
    printf("OK the NSEC said that the type doesn't exist \n");

signsecset = chase_scannam...
dns_rdatatype_any,
DNS_SECTION_AUTHORITY);
if (nsecset != NULL) {
    printf("We have a NSEC for this zone :OK\n");
    ret = prove_nx_type(msg, name, nsecset, rdclass,
        type, rdata_name, rdataset,
        sigrdataset);
    if (ret != ISC_R_SUCCESS) {
        printf("prove_nx: ERROR type exist\n");
        return (ret);
    } else {
        printf("prove_nx: OK type does not exist\n");
        return (ISC_R_SUCCESS);
    }
} else {
    printf("there is no NSEC for this zone: validating "
        "that the zone doesn't exist\n");
    ret = prove_nx_domain(msg, name, rdata_name,
        rdataset, sigrdataset);
    return (ret);
}
/* Never get here */
#endif

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lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
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* DNS resolver (dirmngr/dns.c)


dns.c - Recursive, Reentrant DNS Resolver.

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1.1991 eudev 3.2.5

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1.1999 gomemcache v0.0.0-20190913173617-a41fca850d0b

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1.2000 django-filter 2.3.0

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1.2002 jboss-common-tools 1.3.2.Final

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1.2004 artemis-jms-server 2.10.1

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1.2007 apk-tools 2.10.5-r2

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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use both them and the Library together in an executable that you
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<signature of Ty Coon>, 1 April 1990
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component
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If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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==================

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1.2020 neo4j-codegen 4.1.7

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicholai M Josuttis ( solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrvera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- cran.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (sclery -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
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Thorsten Ottosen (nesotto - at - cs.auc.dk)
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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*/

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
+ trivial database library - standalone version

 - trivial database library - private includes
 -
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permit developers of non-free programs to use free libraries, while
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That's all there is to it!
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSIDL_VERSION = 1.0
# BSIDL_IMAGE = libce
# BSIDL_MYDIR = et
# BSIDL_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSDLIB = $(BSIDL_IMAGE).so.$(BSIDL_VERSION)
BSDLIB_PIC_FLAG = -fpic
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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Gadi Oxman, August 1995

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Written by: Philip Hazel
Email local part: ph10
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1.2053 cracklib 2.9.5 r0
1.2053.1 Available under license:

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Version 2.1, February 1999

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can use it too, but we suggest you first think carefully about whether
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
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engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...[mailto:cracklib-devel-bounces@li...]
> On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20 GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. It isn't the place of the library to dictate to application writers what license they should be using. Thus LGPL-2.1 enters to fill this void.

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
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> >
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Open Source Used In SDWan 20.6.1 20832

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>>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
>>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
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> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
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> >
> > I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> >
> > yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipv5.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 01 Oct 2007 16:59:49 +0000
    (PDT)
    Received: from [82,68,43,14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id IcOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k1ldac0afp1f2dd471059f9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CDD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k1ldac0afp1f2dd471059f9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> ---
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> >
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)  

-a

1.2054 bouncy-castle 1.62

1.2055 jetty 9.4.16.v20190411

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------

Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core
The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

-------
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-------
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

-------
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

-------
Apache
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

-----

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.
1.2056 swagger 1.3.12

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 *
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 *
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 * License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
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 */

Found in path(s):
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources-
jar/io/federecio/dropwizard/swagger/ConfigurationHelper.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources-
jar/io/federecio/dropwizard/swagger/SwaggerViewConfiguration.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources-
jar/io/federecio/dropwizard/swagger/SwaggerResource.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources-
jar/io/federecio/dropwizard/swagger/AuthParamFilter.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources-
jar/io/federecio/dropwizard/swagger/SwaggerBundleConfiguration.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources-
jar/io/federecio/dropwizard/swagger/SwaggerOAuth2Configuration.java
*/
Open Source Used In SDWan 20.6.1  20860
Open Source Used in SDWan 20.6.1  20905
Open Source Used In SD Wan
Open Source Used In SDWan
usE,GACA,aAAar5E,EA,CA,EAxG,A,SAaa5E,EA,AAat5E,EA,AAas5E,EA,AAas5E,GACA,JA,kBAG,EAI
Open Source Used In SDWan 20.6.1  21041
Open Source Used In SD-WAN 20.6.1 21074
Open Source Used In SD WAN
Open Source Used in SDWan 20.6.1 21111
Open Source Used in SD-WAN 20.6.1 21112
B3g,EAGpB2gG,SAAUc,EAHU5gG,EAVq4gG,iBAUH,UOK1B5yN,EAAKlmd,OACH64Q,SAAWA,EACXC
,iBAaKBg,GAaOBn8D,EAAc5n...
Open Source Used In SDWan 20.6.1
```javascript
function isIndexed(maybeAssociative) {
  return delete(maybeAssociative) === false;
}

function isOrdered(maybeOrdered) {
  return !!(maybeOrdered && maybeOrdered[IS_ORDERED_SENTINEL]);
}

function isKeyed(maybeKeyed) {
  return !!(maybeKeyed && maybeKeyed[IS_KEYED_SENTINEL]);
}

function isAssociative(maybeAssociative) {
  return !!(maybeAssociative && maybeAssociative[IS_ASSOCIATIVE_SENTINEL]);
}

function isOrdered(maybeOrdered) {
  return !!(maybeOrdered && maybeOrdered[IS_ORDERED_SENTINEL]);
}

function isKeyed(maybeKeyed) {
  return !!(maybeKeyed && maybeKeyed[IS_KEYED_SENTINEL]);
}

function isAssociative(maybeAssociative) {
  return !!(maybeAssociative && maybeAssociative[IS_ASSOCIATIVE_SENTINEL]);
}

function isOrdered(maybeOrdered) {
  return !!(maybeOrdered && maybeOrdered[IS_ORDERED_SENTINEL]);
}

var IS_ITERABLE_SENTINEL = '@@__IMMUTABLE_ITERABLE__@@';
var IS_KEYED_SENTINEL = '@@__IMMUTABLE_KEYED__@@';
var IS_INDEXED_SENTINEL = '@@__IMMUTABLE_INDEXED__@@';
var IS_ORDERED_SENTINEL = '@@__IMMUTABLE_ORDERED__@@';

// Used for setting prototype methods that IE8 choke on.
var DELETE = 'delete';

// Constants describing the size of trie nodes.
var SHIFT = 5;

// Resulted in best performance after ______?
var SIZE = 1 << SHIFT;
var MASK = SIZE - 1;

// A consistent shared value representing "not set" which equals nothing other than itself, and nothing that could be provided externally.
var NOT_SET = {};

var CHANGE_LENGTH = { value: false };
var DID_ALTER = { value: false };

function MakeRef(ref) {
  ref.value = false;
  return ref;
}

function SetRef(ref) {
  ref && (ref.value = true);
}

function arrCopy(arr, offset) {
  offset = offset || 0;
  var len = Math.max(0, arr.length - offset);
  var newArr = new Array(len);
  for (var ii = 0; ii < len; ii++) {
    newArr[ii] = arr[ii + offset];
  }
  return newArr;
}

function ensureSize(iter) {
  if (iter.size === undefined) {
    iter.size = iter.__iterate(returnTrue);
  }
  return iter.size;
}

function wholeSlice(begin, end, size) {
  return (begin === 0 || (size !== undefined && begin <= -size)) &&
          (end === undefined || (size !== undefined && end >= size));
}

function resolveBegin(begin, size) {
  return resolveIndex(begin, size, 0);
}

function resolveEnd(end, size) {
  return resolveIndex(end, size, size);
}

function resolveIndex(index, size, defaultIndex) {
  return index === undefined ?
    defaultIndex :
    index < 0 ?
      Math.max(0, size + index) :
    size === undefined ?
      index :
      Math.min(size, index);
}

/* global Symbol */

var ITERATE_KEYS = 0;
var ITERATE_VALUES = 1;
var ITERATE_ENTRIES = 2;
var REAL_ITERATOR_SYMBOL = Symbol.iterator;
var FAUX_ITERATOR_SYMBOL = '@@iterator';
var ITERATOR_SYMBOL = REAL_ITERATOR_SYMBOL || FAUX_ITERATOR_SYMBOL;

function Iterator(next) {
  this.next = next;
}

function iteratorValue(type, k, v, iteratorResult) {
  var value = type === 0 ? k : type === 1 ? v : [k, v];
  iteratorResult ? (iteratorResult.value = value) :
          (iteratorResult = {
            value: value, done: false
          });
  return iteratorResult;
}

function iteratorDone() {
  return { value: undefined, done: true };
}

function hasIterator(maybeIterable) {
  return !!getIterator(maybeIterable); // isIterable(maybeIterable)
}

function isIterator(maybeIterator) {
  return maybeIterator && typeof maybeIterator.next === 'function';
}

function getIterator(iterable) {
  return iterable[REAL_ITERATOR_SYMBOL];
}

function isArrayLike(value) {
  return value &&
```
KeyedSeq(json).map(fromJSDefault).toMap();
})

return json;
}

function isPlainObj(value) {

return value &
& (value.constructor === Object || value.constructor === undefined);
}

/*
 * An extension of the "same-value" algorithm as [described for use by ES6 Map
 * and Set](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Map#Key_equality) * NaN is considered the same
 * as NaN, however -0 and 0 are considered the same

 * This is extended further to allow Objects to describe the values they * represent, by way of `valueOf` or
 * `equals` (and `hashCode`). * Note: because of this extension, the key equality of Immutable.Map and the

 * `equals` of Immutable.Set will differ from ES6 Map and Set.

 * The easiest way to describe the value an object represents is by implementing `valueOf`. For example, `Date`
 * represents a value by returning a unix * timestamp for `valueOf`. 

 * var date1 = new
Date(1234567890000); // Fri Feb 13 2009 ..

 * var date2 = new Date(1234567890000);

 * assert( date1 !== date2 );

 * assert( Immutable.is( date1, date2 ) );

 * Note: overriding `valueOf` may have other implications if you use this object * where JavaScript expects

 * a primitive, such as explicit string coercion.

 * For more complex types, especially collections,

 * implementing `valueOf` may * not be performant. An alternative is to implement `equals` and `hashCode`. *

 * `equals` takes another object, presumably of similar type, and returns true * if the it is equal. Equality is

 * symmetrical, so the same result should be * returned if this and the argument are flipped. *

 * `hashCode` returns a 32bit integer number representing the object which

 * will * be used to determine how to store the value object in a Map or Set. You must * provide both or neither

 * methods, one must not exist without the other. * Also, an important relationship between these methods

 * must be upheld: if two * values are equal, they *must* return the same hashCode. If the values are not *

 * equal, they might have the same hashCode; this is called a hash collision. * and while undesirable for

 * performance reasons, it is acceptable. * if (a.equals(b)) {

 * assert(a.hashCode() === b.hashCode());

 * } * All Immutable collections implement `equals` and `hashCode`.

 * is(valueA, valueB) { 

 * if (valueA === undefined || valueA === valueB) {

 * if (a.size === undefined) {

 * return false;

 * }

 * 

 * if (isOrdered(a)) {

 * var entries = a.entries();

 * return entry &

 * & entries.next().done;

 * } 

 * var flapped = false;

 * if (a.size === undefined) {

 * if (a.cacheResult) {

 * } else {

 * flapped = true;

 * var _a = a;

 * a = b;

 * b = _a;

 * }

 * } 

 * } 

 * return allEqual &

 * & a.size === b.size;

 * }

 * return createElement(Repeat, IndexedSeq); 

 * function

 * Repeat(value, times) { 

 * if (!this.instanceof Repeat) {

 * return new Repeat(value, times);

 * } 

 * this._value = value;

 * this.size = times === undefined ? Infinity : Math.max(0, times);

 * if (this.size === 0) {

 * if (EMPTY_REPEAT) {

 * return EMPTY_REPEAT;

 * } 

 * return Repeat([' + this._value + ' ' + this.size + ' times']);

 * } 

 * Repeat.prototype.toString = function() {

 * if (this.size === 0) {

 * return 'Repeat []';

 * } 

 * return 'Repeat [ ' + this._value + ' ' + this.size + ' times ]';

 * } 

 * Repeat.prototype.get = function(index,
<< 16) >>> 0) | 0; // int
    };

  // v8 has an optimization for storing 31-bit signed numbers.
  // Values which have either 00 or 11 as the high order bits qualify.
  // This function drops the highest order bit in a signed number,
  // maintaining its sign.
  function smi(i32) {
    return ((i32 >>> 1) & 0x40000000) | (i32 & 0xBFFFFFFF);
  }

  function hash(o) {
    if (o === false || o === null || o === undefined) {
      return 0;
    }
    if (typeof o.valueOf === 'function') {
      o = o.valueOf();
      if (o === false || o === null || o === undefined) {
        return 0;
      }
    }
    if (o === true) {
      return 1;
    }
    var type = typeof o;
    if (type === 'number') {
      if (o !== o || o === Infinity) {
        return 0;
      }
      var h = o | 0;
      if (h !== o) {
        h ^= o * 0xFFFFFFFF;
      }
      while (o > 0xFFFFFFFF) {
        o /= 0xFFFFFFFF;
        h ^= o;
      }
      return smi(h);
    }
    if (type === 'string') {
      return o.length > STRING_HASH_CACHE_MIN_STRLEN ? cachedHashString(o) : hashString(o);
    }
    if (typeof o.hashCode === 'function') {
      return o.hashCode();
    }
    if (type === 'object') {
      return hashJSObj(o);
    }
    if (typeof o.toString === 'function') {
      return hashString(o.toString());
    }
    throw new Error('Value type ' + type + ' cannot be hashed.\n  };

  function cachedHashString(string) {
    var hash = stringHashCache[string];
    if (hash === undefined) {
      hash = hashString(string);
      if (STRING_HASH_CACHE_SIZE === STRING_HASH_CACHE_MAX_SIZE) {
        STRING_HASH_CACHE_SIZE = 0;
        stringHashCache = {};
      }
      STRING_HASH_CACHE_SIZE++;
      stringHashCache[string] = hash;
    }
    return hash;
  }

  // http://jsperf.com/hashing-strings
  function hashString(string) {
    // This is the hash from JVM
    // The hash code for a string is computed as:
    // s[0] * 31 ^ (n - 1) + s[1] * 31 ^ (n - 2) + ... + s[n - 1] * 31 ^ 0,
    // where s[i] is the ich character of the string and n is the length of \n    // the string. We \"mod\" the result to make it between 0
    // (inclusive) and 2^31 // (exclusive) by dropping high bits.
    var hash = 0;
    for (var ii = 0; ii < string.length; ii++) {
      hash = 31 * hash + string.charCodeAt(ii) | 0;
    }
    return smi(hash);
  }

  function hashJSObj(obj) {
    var hash;
    if (usingWeakMap) {
      hash = weakMap.get(obj);
      if (hash !== undefined) {
        return hash;
      }
    }

    hash = obj[UID_HASH_KEY];
    if (hash !== undefined) {
      return hash;
    }

    if (!canDefineProperty) {
      hash = obj.propertyIsEnumerable && obj.propertyIsEnumerable[UID_HASH_KEY];
      if (hash !== undefined) {
        return hash;
      }

      hash = getIENodeHash(obj); if (hash !== undefined) {
        return hash;
      }
      return hashString(o)
    };

    var n = 0;
    return stringHashCache = {};

    var usingWeakMap = typeof WeakMap === 'function';
    var weakMap;
    if (usingWeakMap) {
      weakMap = new WeakMap();
    }

    var objHashUID = 0;

    var UID_HASH_KEY = object[UID_HASH_KEY];
    if (isExtensible) {
      if (isExtensible) {
        return hash;
      } else if (canDefineProperty) {
        return this.constructor.prototype.propertyIsEnumerable &&
        obj.propertyIsEnumerable === obj.constructor.prototype.propertyIsEnumerable) {
          return true;
        } else if (null
        return hash;
      }
      return hashString(o)
    };

    var n = 0;
    return stringHashCache = {};

    var usingWeakMap = typeof WeakMap === 'function';
    var weakMap;
    if (usingWeakMap) {
      weakMap = new WeakMap();
    }

    var objHashUID = 0;

    var UID_HASH_KEY = object[UID_HASH_KEY];
    if (isExtensible) {
      if (isExtensible) {
        return hash;
      } else if (canDefineProperty) {
        return this.constructor.prototype.propertyIsEnumerable &&
        obj.propertyIsEnumerable === obj.constructor.prototype.propertyIsEnumerable) {
          return true;
        } else if (null
        return hash;
      }
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    }

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    if (isExtensible) {
      if (isExtensible) {
        return hash;
      } else if (canDefineProperty) {
        return this.constructor.prototype.propertyIsEnumerable &&
        obj.propertyIsEnumerable === obj.constructor.prototype.propertyIsEnumerable) {
          return true;
        } else if (null
        return hash;
      }
      return hashString(o)
    };

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    return stringHashCache = {};

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    var weakMap;
    if (usingWeakMap) {
      weakMap = new WeakMap();
    }

    var objHashUID = 0;

    var UID_HASH_KEY = object[UID_HASH_KEY];
    if (isExtensible) {
      if (isExtensible) {
        return hash;
      } else if (canDefineProperty) {
        return this.constructor.prototype.propertyIsEnumerable &&
        obj.propertyIsEnumerable === obj.constructor.prototype.propertyIsEnumerable) {
          return true;
        } else if (null
        return hash;
      }
      return hashString(o)
    };

    var n = 0;
    return stringHashCache = {};

    var usingWeakMap = typeof WeakMap === 'function';
    var weakMap;
    if (usingWeakMap) {
      weakMap = new WeakMap();
    }

    var objHashUID = 0;

    var UID_HASH_KEY = object[UID_HASH_KEY];
    if (isExtensible) {
      if (isExtensible) {
        return hash;
      } else if (canDefineProperty) {
        return this.constructor.prototype.propertyIsEnumerable &&
        obj.propertyIsEnumerable === obj.constructor.prototype.propertyIsEnumerable) {
          return true;
        } else if (null
        return hash;
      }
      return hashString(o)
    };

    var n = 0;
    return stringHashCache = {};

    var usingWeakMap = typeof WeakMap === 'function';
    var weakMap;
    if (usingWeakMap) {
      weakMap = new WeakMap();
    }

    var objHashUID = 0;

    var UID_HASH_KEY = object[UID_HASH_KEY];
    if (isExtensible) {
      if (isExtensible) {
        return hash;
      } else if (canDefineProperty) {
        return this.constructor.prototype.propertyIsEnumerable &&
        obj.propertyIsEnumerable === obj.constructor.prototype.propertyIsEnumerable) {
          return true;
        } else if (null
        return hash;
      }
      return hashString(o)
    };

    var n = 0;
    return stringHashCache = {};

    var usingWeakMap = typeof WeakMap === 'function';
    var weakMap;
    if (usingWeakMap) {
      weakMap = new WeakMap();
    }

    var objHashUID = 0;

    var UID_HASH_KEY = object[UID_HASH_KEY];
    if (isExtensible) {
      if (isExtensible) {
        return hash;
      } else if (canDefineProperty) {
        return this.constructor.prototype.propertyIsEnumerable &&
        obj.propertyIsEnumerable === obj.constructor.prototype.propertyIsEnumerable) {
          return true;
        } else if (null
        return hash;
      }
      return hashString(o)
    };

    var n = 0;
    return stringHashCache = {};

    var usingWeakMap = typeof WeakMap === 'function';
    var weakMap;
    if (usingWeakMap) {
      weakMap = new WeakMap();
    }

    var objHashUID = 0;

    var UID_HASH_KEY = object[UID_HASH_KEY];
    if (isExtensible) {
      if (isExtensible) {
        return hash;
      } else if (canDefineProperty) {
        return this.constructor.prototype.propertyIsEnumerable &&
        obj.propertyIsEnumerable === obj.constructor.prototype.propertyIsEnumerable) {
          return true;
        } else if (null
        return hash;
      }
      return hashString(o)
    };

    var n = 0;
    return stringHashCache = {};

    var usingWeakMap = typeof WeakMap === 'function';
    var weakMap;
var nodes = this.nodes;
var node = nodes[idx];
if (removed & !node) {
  return this;
}

var newNode = updateNode(node, ownerID, shift + SHIFT, keyHash, key, value, didChangeSize, didAlter);
if (newNode === node) {
  return this;
}

var newCount = this.count;
if (!node) {
  return this;
}

if (isEditable) {
  newNode = newNode & & ownerID === this.ownerID;
  if (!newNode) {
    newCount--;
    if (newCount < MIN_HASH_ARRAY_MAP_SIZE) {
      return packNodes(ownerID, nodes, newCount, idx);
    }
  }

  var isEditable = ownerID & & ownerID === this.ownerID;
  var newNodes = setIn(nodes, idx, newNode, isEditable);
  if (isEditable) {
    this.count = newCount;
    this.nodes = newNodes;
  }

  return new HashArrayMapNode(ownerID, newCount, newNodes);
}

function HashCollisionNode(ownerID, keyHash, entries) {
  this.ownerID = ownerID;
  this.keyHash = keyHash;
  this.entries = entries;
}

HashCollisionNode.prototype.get = function (shift, keyHash, key, notSetValue) {
  var entries = this.entries;
  for (var ii = 0, len = entries.length; ii < len; ii++) {
    if (is(key, entries[ii][0])) {
      return entries[ii][1];
    }
  }

  return notSetValue;
}

HashCollisionNode.prototype.update = function (ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }

  var removed = value === NOT_SET;
  if (keyHash !== this.keyHash) {
    if (removed) {
      return this;
    }
    SetRef(didAlter);
  }

  var value = isEditable ? entries : arrCopy(entries);
  if (exists) {
    if (removed) {
      return this;
    }
    SetRef(didAlter);
    (removed || !exists) &&
    SetRef(didAlter);
    return this;
  }

  var newEntries = setIn(entries, idx, [key, value]);
  if (exists) {
    newEntries.pop();
  }

  return this;
}

HashCollisionNode.prototype.get = function (shift, keyHash, key, notSetValue) {
  var entries = this.entries;
  for (var ii = 0, len = entries.length; ii < len; ii++) {
    if (is(key, entries[ii][0])) {
      return entries[ii][1];
    }
  }

  return notSetValue;
}

HashCollisionNode.prototype.update = function (ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }

  var removed = value === NOT_SET;
  if (keyHash !== this.keyHash) {
    if (removed) {
      return this;
    }
    SetRef(didAlter);
  }

  var value = isEditable ? entries : arrCopy(entries);
  if (exists) {
    if (removed) {
      return this;
    }
    SetRef(didAlter);
    (removed || !exists) &&
    SetRef(didAlter);
    return this;
  }

  var newEntries = setIn(entries, idx, [key, value]);
  if (exists) {
    newEntries.pop();
  }

  return this;
}

HashCollisionNode.prototype.get = function (shift, keyHash, key, notSetValue) {
  var entries = this.entries;
  for (var ii = 0, len = entries.length; ii < len; ii++) {
    if (is(key, entries[ii][0])) {
      return entries[ii][1];
    }
  }

  return notSetValue;
}

HashCollisionNode.prototype.update = function (ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }

  var removed = value === NOT_SET;
  if (keyHash !== this.keyHash) {
    if (removed) {
      return this;
    }
    SetRef(didAlter);
  }

  var value = isEditable ? entries : arrCopy(entries);
  if (exists) {
    if (removed) {
      return this;
    }
    SetRef(didAlter);
    (removed || !exists) &&
    SetRef(didAlter);
    return this;
  }

  var newEntries = setIn(entries, idx, [key, value]);
  if (exists) {
    newEntries.pop();
  }

  return this;
}

HashCollisionNode.prototype.get = function (shift, keyHash, key, notSetValue) {
  var entries = this.entries;
  for (var ii = 0, len = entries.length; ii < len; ii++) {
    if (is(key, entries[ii][0])) {
      return entries[ii][1];
    }
  }

  return notSetValue;
}
node.nodes.length - 1; 
if (index <= maxIndex) {
  var subNode = node.nodes[this._reverse ?
maxIndex - index : index];
  if (subNode) {
    var stack = this._stack = mapIteratorFrame(subNode, stack);
    continue;
  }
}

return iteratorDone();
}

function mapIteratorValue(type, entry) {
  return iteratorValue(type, entry[0], entry[1]);
}

function mapIteratorFrame(node, prev) {
  return (typeof node == 'node') ?
  function makeMap(size, root, ownerID, hash) {
    var map = Object.create(MapPrototype);
    map.size = size;
    map._root = root;
    map._ownerID = ownerID;
    map.__hash = hash;
    map.__altered = false;
    return map;
  }

  function EMPTY_MAP() {
    return newArrayMapNode(ownerID, []);
  }

  function updateNode(node, ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
    if (!node) {
      if (value === NOT_SET) {
        return node;
      }
      SetRef(didAlter);
      SetRef(didChangeSize);
      return new ValueNode(ownerID, hash(key), [key, value]);
    }
    return node.update(ownerID, shift, keyHash, key, value, didChangeSize, didAlter);
  }

  function createNodes(ownerID, entries, key, value) {
    if (!ownerID) {
      ownerID = new OwnerID();
    }
    var node = new ValueNode(ownerID, hash(key), [key, value]);
    for (var ii = 0; ii < entries.length; ii++) {
      var entry = entries[ii];
      node = node.update(ownerID, 0, undefined, entry[0], entry[1]);
    }
    return node;
  }

  function packNodes(ownerID, nodes, count, excluding) {
    var bitmap = 0;
    var packedII = 0;
    var packedNodes = new Array(count);
    for (var ii = 0, bit = 1, len = nodes.length; ii < len; ii++, bit <<= 1) {
      var node = nodes[ii];
      if (node !== undefined && ii !== excluding) {
        bitmap |= bit;
        packedNodes[packedII++] = node;
      }
    }
    return new BitmapIndexedNode(ownerID, bitmap, packedNodes);
  }

  function expandNodes(ownerID, nodes, bitmap, including, node) {
    var count = 0;
    var expandedNodes = new Array(SIZE);
    for (var ii = 0; bitmap != 0; ii++, bitmap >>>= 1) {
      var node = expandedNodes[ii] = bitmap & 1 ? node : undefined;
    }
    return new HashArrayMapNode(ownerID, count + 1, expandedNodes);
  }

  function mergeIntoMapWith(map, merger, iterables) {
    var iters = [];
    for (var ii = 0; ii < entries.length; ii++) {
      var entry = entries[ii];
      if (isIteratable(entry)) {
        iters.push(entry);
      }
    }
    return mergeIntoCollectionWith(map, merger, iters);
  }

  function deepMerger(existing, value, key) {
    return existing && existing.mergeDeep && isIterable(value) ?
    existing.mergeDeep(value) :
    is(existing, value) ? existing : value;
  }

  function deepMergerWith(merger) {
    return function(existing, value, key)  {
      if (existing && existing.mergeDeepWith && isIterable(value)) {
        return existing.mergeDeepWith(merger, value);
      }
      var nextValue = existing.mergeDeep(merger, value);
      if (nextValue == existing, existing, value, key) {
        return nextValue;
      }
      return mergeIntoCollectionWith(map, merger, iters);
    };
  }

  function mergeIntoCollectionWith(collection, merger, iters) {
    iters = iters.filter(function(x ) {return x.size !== 0});
    if (iters.length == 0) {
      return
List.prototype.shift = function() {
    return setListBounds(this, 1);
}

// @pragma Composition

List.prototype.merge = function/*...iters*/() {
    return mergeIntoListWith(this, undefined, arguments);
}

List.prototype.mergeWith = function(merger) {
    var iters = SLICES0.call(arguments, 1);
    return mergeIntoListWith(this, merger, iters);
}

List.prototype.mergeDeep = function/*...iters*/() {
    return mergeIntoListWith(this, deepMerger, arguments);
}

List.prototype.mergeDeepWith = function(merger) {
    var iters = SLICES0.call(arguments, 1);
    return mergeIntoListWith(this, deepMergerWith(merger), iters);
}

List.prototype.setSize = function(size) {
    return setListBounds(this, 0, size);
}

// @pragma

List.prototype.slice = function(begin, end) {
    var size = this.size;
    if (wholeSlice(begin, end, size)) {
        return this;
    }
    return setListBounds(this, resolveBegin(begin, size),
      resolveEnd(end, size));
}

List.prototype.__iterator = function(type, reverse) {
    var index = 0;
    var values = iterateList(this, reverse);
    return new Iterator(function() {
        var value = values();
        return value === DONE ?
          iteratorDone() :
          iteratorValue(type, index++, value);
    });
}

List.prototype.__iterate = function(fn, reverse) {
    var index = 0;
    var values = iterateList(this, reverse);
    var value;
    while ((value = values()) !== DONE) {
        if (fn(value, index++, this) === false) {
            break;
        }
    }
    return index;
}

List.prototype.__ensureOwner = function(ownerID) {
    if (ownerID === this.__ownerID) {
        return this;
    }
    if (!ownerID) {
        this.__ownerID = ownerID;
        return this;
    }
    return makeList(this._origin, this._capacity, this._level, this._root, this._tail, ownerID,
      this.__hash);
}

function isList(maybeList) {
    return !!(maybeList &&
      maybeList[IS_LIST_SENTINEL]);
}

List.prototype.isList = isList;

// TODO: seems like these methods are very similar

function iterateList(list, reverse) {
    var left = list._origin;
    var right = list._capacity;
    var tailPos = getTailOffset(right);
    var tail = list._tail;

    return iterateNodeOrLeaf(list._root, list._level, 0);
}

function iterateNodeOrLeaf(node, level, offset) {
    return level === 0 ?
        iterateLeaf(node, offset) :
        iterateNode(node, level, offset);
}

function iterateLeaf(node, offset) {
    var array = offset === tailPos ?
        node.array :
        node.array.slice(tailPos + 1);
    var index = 0;
    var sizeIndex = ((index - 1) >>> level) & MASK;
    var size = array.length;
    var originIndex = (index >>> level) & MASK;
    var sizeOffset = offset;
    var sizeOffsetIndex = (sizeOffset - 1) >>> level;
    var first = sizeIndex === 0;
    var next = size === 0;
    var negate = reverse ?
        1 :
        -1;
    var valueIndex = (index * negate) + sizeOffsetIndex;
    var value = array[valueIndex];

    return valueIndex === sizeIndex ?
        iteratorValue(LEFT, level, index, originIndex, sizeIndex)
        :
        iteratorValue(RIGHT, level, index, originIndex, sizeIndex);
```javascript
function functName(param1, param2, ...) {
  // Function body
  return result;
}
```

- **Variable Names:**
  - `list`: List object
  - `array`: Array used for storage
  - `index`: Index for array or list
  - `level`: Level of tree
  - `capacity`: Maximum capacity
  - `origin`: Original position
  - `root`: Root of list
  - `tail`: Tail of list
  - `owner`: Owner reference
  - `hash`: Hash value

- **Use Case:**
  - Evaluating list operations like clear(), get(), set(), and modify
  - Updating VNode data in a tree structure

- **Function Mechanics:**
  - `indexOf()`: Finds index of value
  - `set()`: Sets value at index
  - `update()`: Updates VNode with new data
  - `updateList()`: Updates list with new values

- **Object Creation:**
  - `makeList()`: Creates a new List object with specified parameters
  - `emptyList()`: Returns an empty List object

- **Looping and Iteration:**
  - Using `while` and `for` loops to iterate through list elements
  - `iterateNodeOrLeaf()`: Iterates through nodes or leaves

- **Shorthand and Flags:**
  - `didAlter`: Flag to track changes
  - `hash`: Hash value for equality checks
  - `nodeHas`: Flag indicating node presence

- **Miscellaneous:**
  - `newOffset()`: Generates new offset
  - `size()`: Returns list size
  - `slice()`: Slices array for specific elements
  - `wrapIndex()`: Wraps index values

This code snippet is designed for efficient list and tree manipulations, optimizing for performance in dynamic and scalable systems.
```
getTailOffset(oldCapacity);
var newTailOffset = getTailOffset(newCapacity);
// New size might need creating a higher root.
while (newTailOffset >= 1 << (newLevel + SHIFT)) {
  newRoot = new 
  VNode(newRoot && newRoot.array.length ? [newRoot] : [], owner);
  newLevel += SHIFT;
}
// Locate or create the new tail.
var oldTail = list._tail;
var newTail = newTailOffset < oldTailOffset ? 
  listNodeFor(list, newCapacity - 1) :
  newTailOffset > oldTailOffset ? new VNode([], owner) : oldTail;
// Merge Tail into tree.
if (oldTail && newTailOffset > oldTailOffset && &newOrigin < oldCapacity &&
  oldTail.array.length) {
  list._root = editableVNode(list._root, owner);
  var node = list._root.array[0];
  for (var level = newLevel; level > SHIFT; level -= SHIFT) {
    node = node.array[node[idx] = editableVNode(node.array[idx], owner)];
  }
  list._root.array[(oldTailOffset >>> SHIFT) & MASK] = oldTail;
}
// If the new origin is within the tail, then we do not need a root.
if (newOrigin >=
  newTailOffset) {
  newOrigin -= newTailOffset;
  newCapacity -= newTailOffset;
  newLevel =
  SHIFT;
  newRoot = null;
  newTail = newTail && &newTail.removeBefore(owner, 0, newCapacity);
}
// Otherwise, if the root has been trimmed, garbage collect.
} else if (newOrigin > oldOrigin) {
  newTailOffset = getTailOffset(newCapacity - newOrigin);
  newLevel =
  newTailOffset < oldTailOffset ?
    listNodeFor(list, newCapacity - 1) :
    newTailOffset > oldTailOffset ? new VNode([], owner) : oldTail;
}
// If the size has been reduced, there’s a chance the tail needs to be
// trimmed.
if (newCapacity < oldCapacity) {
  newTailOffset = getTailOffset(oldCapacity);
  newCapacity = getTailOffset(newCapacity);
  newLevel =
  newTailOffset < oldTailOffset ?
    listNodeFor(list, newCapacity - 1) :
    newTailOffset > oldTailOffset ? new VNode([], owner) : oldTail;
}
```

this._list.fromEntrySeq().__iterator(type, reverse);

OrderedMap.prototype._ensureOwner = function(ownerID) {
  if (ownerID === this._ownerID) {
    return this;
  }
  var newMap = this._map._ensureOwner(ownerID);
  var newList = this._list._ensureOwner(ownerID);
  if (!ownerID) {
    this._ownerID = ownerID;
    this._map = newMap;
    this._list = newList;
    return this;
  }
  return makeOrderedMap(newMap, newList, ownerID, this.__hash);
}

function isOrderedMap(maybeOrderedMap) {
  return isMap(maybeOrderedMap) && isOrdered(maybeOrderedMap);
}

OrderedMap.isOrderedMap = isOrderedMap;

OrderedMap.prototype[IS_ORDERED_SENTINEL] = true;

OrderedMap.prototype[DELETE] = OrderedMap.prototype.remove;

function makeOrderedMap(map, list, ownerID, hash) {
  var omap = Object.create(OrderedMap.prototype);
  omap.size = map ? map.size : 0;
  omap._map = map;
  omap._list = list;
  omap._ownerID = ownerID;
  omap.__hash = hash;
  return omap;
}

var EMPTY_ORDERED_MAP;

function emptyOrderedMap() {
  return EMPTY_ORDERED_MAP || (EMPTY_ORDERED_MAP = makeOrderedMap(emptyMap(), emptyList()));
}

function updateOrderedMap(omap, k, v) {
  var map = omap._map;
  var list = omap._list;
  var i = map.get(k);
  var has = !! undefined;
  var newMap;
  var newList;
  if (v === NOT_SET) { // removed
    if (!has) {
      return omap;
    }
    if (list.size >= SIZE && list.size >= map.size * 2) {
      newList = list.filter(function(entry, idx) {return entry !== undefined && i !== idx});
      newMap = newList.toKeyedSeq().map(function(entry) {return entry[0]}).flip().toMap();
      if (omap.__ownerID) {
        newMap.__ownerID = newList.__ownerID = omap.__ownerID;
      }
    } else {
      newMap = map.remove(k);
      newList = i === list.size - 1 ? list.pop() : list.set(i, undefined);
    }
  } else {
    if (has) {
      if (v === list.get(i)[1]) {
        return omap;
      }
      newMap = map;
      newList = list.set(i, [k, v]);
    } else {
      newMap = map.set(k, list.size);
      newList = list.set(k, list.size);
    }
  }
  if (omap._ownerID) {
    omap.size = newMap.size;
    omap._ownerID = omap._ownerID;
  }
  return omap;
}

function ToKeyedSequence(indexed, useKeys) {
  this._iter = indexed;
  this._useKeys = useKeys;
  this.size = indexed.size;
  return this._iter.get(function(key, notSetValue) {
    return this._iter.get(key, notSetValue);
  });
}

ToKeyedSequence.prototype.get = function(key, notSetValue) {
  return this._iter.get(key, notSetValue);
};

ToKeyedSequence.prototype.includes = function(value) {
  return this._iter.includes(value);
};

ToKeyedSequence.prototype.__iterate = function(fn, reverse) {
  var iterations = 0;
  return this._iter.__iterate(function(v) {return fn(v, iterations++, this);}, reverse);
};

ToKeyedSequence.prototype.__iterator = function(type, reverse) {
  var iterator = this._iter.__iterator(ITERATE_VALUES, reverse);
  return new Iterator(function() {
    var step = iterator.next();
    return step.done ? step : iteratorValue(type, reverse ? --ii : ii++, step.value, step);
  });
}

ToKeyedSequence.prototype.__iterate = function(fn, reverse) {
  var step = iterator.next();
};

ToIndexedSequence.prototype.includes = function(value) {
  return this._iter.includes(value);
};

ToIndexedSequence.prototype.__iterate = function(fn, reverse) {
  var iterations = 0;
  return this._iter.__iterate(function(v) {return fn(v, iterations++, this);}, reverse);
};

ToIndexedSequence.prototype.__iterator = function(type, reverse) {
  var var iterations = 0;
  return new Iterator(function() {
    var step = iterator.next();
    return step.done ? step : iteratorValue(type, reverse ? --ii : ii++, step.value, step);
  });
}
var step = iterator.next();
return step.done ? step
   : iteratorValue(type, iterations++, step.value, step);
}

createClass(ToSetSequence, SetSeq);
function ToSetSequence(iter) {
  this._iter = iter;
  this.size = iter.size;
}

ToSetSequence.prototype.has = function(key) {
  return this._iter.includes(key);
}

ToSetSequence.prototype.__iterate = function(fn, reverse) {
  var this$0 = this;
  return this._iter.__iterate(function(v) {
    return fn(v, v, this$0), reverse;
  });
}

createClass(FromEntriesSequence, KeyedSeq);
function FromEntriesSequence(entries) {
  this._iter = entries;
  this.size = entries.size;
}

FromEntriesSequence.prototype.entrySeq = function() {
  return this._iter.toSeq();
}

FromEntriesSequence.prototype.__iterate = function(fn, reverse) {
  var this$0 = this;
  return this._iter.__iterate(function(entry) {
    if (entry) {
      validateEntry(entry);
      var indexedIterable = isIterable(entry);
      return fn(
        indexedIterable ? entry.get(1) : entry[1],
        indexedIterable ? entry.get(0) : entry[0],
        this$0
      );
    }
  }, reverse);
}

FromEntriesSequence.prototype.__iterator = function(type, reverse) {
  var iterator = this._iter.__iterator(ITERATE_VALUES, reverse);
  return new Iterator(function() {
    var step = iterator.next();
    return step.done ? step
      : iteratorValue(type, step.value, step.value, step);
  });
}

createClass(ToIndexedSequence, IndexedSeq);
ToIndexedSequence.prototype.cacheResult =
    cacheResultThrough;

ToKeyedSequence.prototype.cacheResult =
    cacheResultThrough;

ToSetSequence.prototype.cacheResult =
    cacheResultThrough;

var flipFactory = function(iterable) {
  var flipSequence = makeSequence(iterable);
  flipSequence._iter = iterable;
  flipSequence.size = iterable.size;
  flipSequence.flip = function() {
    return iterable;
  }
  flipSequence.reverse = function() {
    var reversedSequence = iterable.reverse();
    reversedSequence.flip = function() {
      return reversedSequence;
    };
    return reversedSequence;
  };

  flipSequence.includes(key) {
    return iterable.includes(key);
  }
  flipSequence.includes(key)
    return function(key) {
      return iterable.includes(key);
    };

  flipSequence.__iterateUncached = function(fn, reverse) {
    var this$0 = this;
    return iterable.__iterateUncached(function(v, k) {
      return fn(mapper.call(context, v, k, this$0)) !== false, reverse;
    });
}

flipSequence.__iteratorUncached = function(type, reverse) {
  var this$0 = this;
  return iterable.__iteratorUncached(type, reverse);
}

mapFactory(Iterable, mapper, context) {
  var mappedSequence = makeSequence(Iterable);
  mappedSequence.size = iterable.size;
  mappedSequence.has = function(key) {
    return iterable.has(key);
  };
  mappedSequence.get = function(key, notSetValue) {
    var v = iterable.get(key, NOT_SET);
    return v === NOT_SET ?
      notSetValue :
      mapper.call(context, v, key, iterable);
  };
  mappedSequence.__iterateUncached = function(fn, reverse) {
    var this$0 = this;
    return iterable.__iterateUncached(function(v, k) {
      return fn(mapper.call(context, v, k, this$0)) !== false, reverse;
    });
}

mapFactory(Iterable, mapper, context) {
  var mappedSequence = makeSequence(Iterable);
  mappedSequence.size = iterable.size;
  mappedSequence.has = function(key) {
    return iterable.has(key);
  };
  mappedSequence.get = function(key, notSetValue) {
    var v = iterable.get(key, NOT_SET);
    return v === NOT_SET ?
      notSetValue :
      mapper.call(context, v, key, iterable);
  };
  mappedSequence.__iterateUncached = function(fn, reverse) {
    var this$0 = this;
    return iterable.__iterateUncached(function(v, k, c) {
      return fn(mapper.call(context, v, k, c, this$0)) !== false, reverse;
    });
}

fromEntriesFactory(entries) {
  var fromEntriesSequence = makeSequence(entries);
  fromEntriesSequence._iter = entries;
  fromEntriesSequence.size = entries.size;
  fromEntriesSequence._iter = entries;
  fromEntriesSequence.size = entries.size;
}

fromEntriesSequence.prototype.entrySeq = function() {
  return this._iter.toSeq();
}

fromEntriesSequence.prototype.__iterate = function(fn, reverse) {
  var this$0 = this;
  return this._iter.__iterateUncached(function(entry) {
    if (entry) {
      validateEntry(entry);
      var indexedIterable = isIterable(entry);
      return fn(
        indexedIterable ? entry.get(1) : entry[1],
        indexedIterable ? entry.get(0) : entry[0],
        this$0
      );
    }
  }, reverse);
}

fromEntriesSequence.prototype.__iterator = function(type, reverse) {
  var iterator = this._iter.__iterator(ITERATE_VALUES, reverse);
  return new Iterator(function() {
    var step = iterator.next();
    return step.done ? step
      : iteratorValue(type, step.value, step.value, step);
  });
}
function flatDeep(ter, currentDepth) {
  var thisS0 = this;
  var iterator = function(v, k) {
    if ((v && isIterateable(v)) && isIterable(v)) {
      flatDeep(v, currentDepth + 1);
    } else if (fn(v, useKeys ? k : iterations++, thisS0 === false) !== false) {
      stopped = true;
    } return stopped;
  }, reverse:
});

var iterators = iters.map(function(i) {
  return (i = Iterable(i), getIterator(reverse ? i.reverse() : i))
});

var iterations = 0;
var isDone = false;
return new Iterator(function() {
  var steps;
  if (!isDone) {
    steps = iterators.map(function(i) {
      return i.next();
    });
    isDone = steps.some(function(s) {
      return s.done;
    });
  }
  return iterations;
}.

this.__iteratorUncached = function(type, reverse) {
  var iterator = iterable._iterateUncached(type, reverse);
  var var stack = [];
  var var iterations = 0;
  var return new Iterator(function() {
    while (iterator) {
      var step = iterator.next();
      if (step.done !== false) {
        iterator = stack.pop();
        continue;
      }
      var v = step.value;
      if (type === ITERATE_ENTRIES) {
        v = v[1];
      }
      if (((depth || currentDepth < depth) && isIterable(v)) || fn(v, useKeys ? k : iterations++, thisS0) !== false) {
        stopped = true;
      } return stopped;
    }, reverse:
});

var flatSequence.__iteratorUncached = function(type, reverse) {
  var var coerce = iterableClass(iterable);
  var var return iterable.toSeq().map(function(v, k) {
    return coerce(mapper.call(context, v, k, iterable))
  }).flatten(true);
}.

this.__iterate = function(fn, reverse) {var this$0 = this;
  var var index = 0;
  var var entries = iterable.toSeq().map(
    function(v, k)  {return [k, v, index++, mapper ? mapper(v, k, iterable) : v]}
    ).toArray();
  entries.sort(function(a, b) {
    return comparator(a[3], b[3]) || a[2] - b[2]
  }).forEach(
    function(v, i)  {entries[i].length
  });
  return isKeyedIterable ? KeyedSeq(entries) :
  SetSeq(entries);
}

function maxFactory(iterable, comparator, mapper) {
  if (!comparator) {
    comparator = defaultComparator;
  }
  if (mapper) {
    var
    } return maxCompare(comparator, a[1], b[1]) ? b : a);}
  return return entry &
    return return iterable.reduce(function(a, b) {
      return maxCompare(comparator, a, b)
    }, iteratorDone();
  });
}

function flatMapFactory(iterable, comparator, mapper) {
  return iterable.reduce(function(a, b) {
    return maxCompare(comparator, a, b)
  }, iteratorDone();
};

function flatSequence.__iterateUncached = function(fn, reverse) {var this$0 = this;
  var var iterations = 0;
  var return iteratorDone();
}.

var interposedSequence = makeSequence(keyIter);
interposedSequence.size = iterable.size && iterable.size * 2 - 1;
interposedSequence.__iterateUncached = function(fn, reverse) {
  var thisS0 = this;
  var var iterations = 0;
  var var return iterable._iterate(function(v, k) {
    return fn(v, iterations++, thisS0) !== false) && fn(v[1], iterations++, thisS0) !== false, reverse
  );
  return iterations;
};

var interposedSequence.__iteratorUncached = function(type, reverse) {
  var var coerce = iterableClass(iterable);
  var var return iterable.toSeq().map(function(v, k) {
    return coerce(mapper.call(context, v, k, iterable))
  }).flatten(true);
}.

this.__iterateUncached = function(fn, reverse) {
  var var iterations = 0;
  var var return iteratorDone();
}.

interposedSequence.__iteratorUncached = function(type, reverse) {
  var var iterator = iterable._iterateUncached(type, reverse);
  var var stack = [];
  var var iterations = 0;
  var return new Iterator(function() {
    var steps;
    if (!isDone) {
      steps = iterators.map(function(i) {
        return i.next();
      });
      isDone = steps.some(function(s) {
        return s.done;
      });
  }
  return iterations;
}.

interposedSequence.__iteratorUncached = function(type, reverse) {
  var var iterator = iterable._iterateUncached(type, reverse);
  var var stack = [];
  var var iterations = 0;
  var return new Iterator(function() {
    var steps;
    if (!isDone) {
      steps = iterators.map(function(i) {
        return i.next();
      });
      isDone = steps.some(function(s) {
        return s.done;
      });
  }
  return iterations;
}.
if (isDone) {
 return iteratorDone();
}

if (isNotInfinite(iter.size)) {
 return ensureSize(iter);
}

if (return isKeyed(declareable) || isIndexed(declareable) || isSettable(declareable)) {
 return function makeSequence(declareable) {
 return Object.create(declareable.prototype);
 };

if (assertNotInfinite(declareable.size)) {
 return function iterableClass(declareable) {
 return return isKeyed(declareable) ? KeyedIterable : IndexedSeq : SetSeq : prototype;
 };

if (function cacheResultThrough() {
 if (this._iter.cacheResult) {
 this._iter.cacheResult();
 this.size = this._iter.size;
 return this;
 } else {
 return Seq.prototype.cacheResult.call(this);
 }

 if (var iter = getIterator(declareable)) {
 var var a = b ? 1 : -1;
 };

function forceIterator(keyPath) {
 var iter = getIterator(keyPath);
 if (!iter) {
 // Array might not be iterable in this environment, so we need a fallback to our wrapped type.
 if (isArrayList(declareable)) {
 throw new TypeError('Expected iterable or array-like: ' + keyPath);
 }
 var iter = KeyedIterable(declareable);
 }

var Record = function Record(values) {
 if (values instanceof Record) {
 return values;
 }
 if (!(this instanceof Record)) {
 return new Record(values);
 }
 if (!hasInitialized) {
 hasInitialized = true;
 var keys = Object.keys(values);
 setProps(RecordPrototype, keys);
 RecordPrototype.size = keys.length;
 RecordPrototype.prototype.__name = name;
 RecordPrototype.keys = keys;
 return new Map(values);
 };

var RecordPrototype = Record.prototype = Object.create(RecordPrototype);

var RecordPrototype.constructor = RecordType;
 var Record.prototype.toString = function() {
 return this._to_string(recordName(this) + ' {', '}');
 };

this.prototype = Record.prototype;

var Record.prototype.has = function(k) {
 return this._defaultValues.hasOwnProperty(k);
}

var Record.prototype.get = function(k, notSetValue) {
 if (!this.has(k)) {
 return notSetValue;
 }
 var defaultVal = this._defaultValues[k];
 return this._map ? this._map.get(k, defaultVal) : defaultVal;
}

var Record.prototype.clear = function() {
 if (this.__ownerID) {
 this._map && this._map.clear();
 return this;
 }
 return RecordType._empty || (RecordType._empty = makeRecord(this, emptyMap()));
}

var Record.prototype.set = function(k, v) {
 if (!this.has(k)) {
 throw new Error('Cannot set unknown key "' + k + '" on ' + recordName(this));
 }
 if (this._map && !this._map.has(k)) {
 var defaultVal = this._defaultValues[k];
 if (v === defaultVal) {
 return this;
 }
 }
 var newMap = this._map && this._map.set(k, v);
 if (this.__ownerID || newMap === this._map) {
 return this;
 }
 return makeRecord(this, newMap, ownerID);
}

var Record.prototype.remove = function(k) {
 if (!this.has(k)) {
 return this;
 }
 var newMap = this._map && this._map.remove(k);
 if (this.__ownerID || newMap === this._map) {
 return this;
 }
 return makeRecord(this, newMap, ownerID);
}

var Record.prototype.merge = function(k, v) {
 if (this.__ownerID || newMap === this._map) {
 return this;
 }
 return makeRecord(this, newMap, ownerID);
}

var Record.prototype.mergeWith = function(k, v) {
 if (this.__ownerID || newMap === this._map) {
 return this;
 }
 return newMap = this._map && this._map.mergeWith(k, v, ownerID);
}

var Record.prototype.mergeDeep = function() {
 return RecordPrototype.mergeDeep = MapPrototype.mergeDeep;
};
RecordPrototype.mergeDeepWith = MapPrototype.mergeDeepWith;
RecordPrototype.mergeDeepIn = MapPrototype.mergeDeepIn;
RecordPrototype.setSize = MapPrototype.setSize;
RecordPrototype.set = MapPrototype.set;
RecordPrototype.update = MapPrototype.update;
RecordPrototype.updateIn = MapPrototype.updateIn;
RecordPrototype.withMutations = MapPrototype.withMutations;
RecordPrototype.asMutable = MapPrototype.asMutable;
RecordPrototype.asImmutable = MapPrototype.asImmutable;

function makeRecord(likeRecord, map, ownerID) {
  var record = Object.create(Object.getPrototypeOf(likeRecord));
  record._map = map;
  record.__ownerID = ownerID;
  return record;
}

function recordName(record) {
  return record._name || record.constructor.name || 'Record';
}

function setProps(prototype, names) {
  try {
    names.forEach(setProp.bind(undefined, prototype));
  } catch (error) {
  }
}

function setProp(prototype, name) {
  Object.defineProperty(prototype, name, {
    get: function() {
      return this.get(name);
    },
    set: function(value) {
      invariant(this.__ownerID,
        'Cannot set on an immutable record.');
      this.set(name, value);
    }
  });
}

createClass(SetCollection);

// @pragma Construction

function Set(value) {
  return value === null || value === undefined ? emptySet() :
    isSet(value) && !isOrdered(value) ? value :
    emptySet().withMutations(function(set ) {
      var iter = SetIterable(value);
      assertNotInfinite(iter.size);
      iter.forEach(function(v ) {return set.add(v)});
    });
}

Set.of = function(/*...values*/) {
  return this(arguments);
};

Set.fromKeys = function(value) {
  return this(KeyedIterable(value).keySeq());
};

Set.prototype.toString = function() {
  return this.__toString('Set {', '}');
};

Set.prototype.has = function(value) {
  return this._map.has(value);
};

Set.prototype.add = function(value) {
  return updateSet(this, this._map.set(value, true));
};

Set.prototype.remove = function(value) {
  return updateSet(this, this._map.remove(value));
};

Set.prototype.clear = function() {
  return updateSet(this, this._map.clear());
};

Set.prototype.union = function() {var iters = SLICE$0.call(arguments, 0);
  iters = iters.filter(function(x ) {return x.size !== 0});
  if (iters.length === 0) {
    return this;
  }
  if (this.size === 0 && !this.__ownerID && iters.length === 1) {
    return this.constructor(iter[0]);
  }
  return this.withMutations(function(set ) {
    for (var ii = 0; ii < iters.length; ii++) {
      SetIterable(iters[ii]).forEach(function(value ) {return set.add(value)});
    }
  });
}

Set.prototype.intersect = function() {var iters = SLICE$0.call(arguments, 0);
  if (iters.length === 0) {
    return this;
  }
  iters = iters.map(function(iter ) {return SetIterable(iter)});
  var originalSet = this;
  return this.withMutations(function(set ) {
    originalSet.forEach(function(value ) {
      if (!iters.every(function(ter ) {return ter.includes(value)})) {
        set.remove(value);
      }
    });
  });
}

Set.prototype.subtract = function() {var iters = SLICE$0.call(arguments, 0);
  if (iters.length === 0) {
    return this;
  }
  iters = iters.map(function(ter ) {return SetIterable(ter)});
  var originalSet = this;
  return this.withMutations(function(set ) {
    originalSet.forEach(function(value ) {
      if (iters.some(function(ter ) {return ter.includes(value)})) {
        set.remove(value);
      }
    });
  });
}

Set.prototype.merge = function() {
  return this.union.apply(this, arguments);
};

Set.prototype.mergeWith = function(merger) {var iters = SLICE$0.call(arguments, 1);
  return this.withMutations(function(set ) {
    var originalSet = this;
    return originalSet.forEach(function(value ) {
      if (!iters.every(function(ter ) {return ter.includes(value)})) {
        set.remove(value);
      }
    });
  });
}

Set.prototype.sort = function(comparator) {
  // Late binding
  return OrderedSet(sortFactory(this, comparator));
};

Set.prototype.sortBy = function(mapper, comparator) {
  // Late binding
  return OrderedSet(sortFactory(this, comparator, mapper));
};

Set.prototype.wasAltered = function() {
  return this._map.wasAltered();
};

Set.prototype.__iterate = function(fn, reverse) {var this$0 = this;
  return this._map.__iterate(function(_, k)  {return fn(k, k, this$0)}, reverse);
};

Set.prototype.__iterator = function(type, reverse) {
  return this._map.map(function(_, k)  {return k}).__iterator(type, reverse);
};

Set.prototype.__ensureOwner = function(ownerID) {
  if (ownerID === this.__ownerID) {
    return this;
  }
  var newMap = this._map.__ensureOwner(ownerID);
  if (ownerID !== this.__ownerID) {
    this._map = newMap;
    this.__ownerID = ownerID;
  }
  return this.__make(newMap, ownerID);
};

function isSet(maybeSet) {
  return !!(maybeSet && maybeSet[IS_SET_SENTINEL]);
}

var IS_SET_SENTINEL =
```javascript
'@@__IMMUTABLE_SET__@@';

  var SetPrototype = Set.prototype;
  SetPrototype[IS_SET_SENTINEL] = true;
  SetPrototype.remove = SetPrototype.removeWith;
  SetPrototype.mergeDeepWith = SetPrototype.merge;
  SetPrototype.mergeDeep = SetPrototype.mergeWith;

  function updateSet(set, newMap) {
    if (set.__ownerID) {
      set.size = newMap.size;
      set._map = newMap;
      return set;
    }

    var newMap = new Set();
    set.__empty = newMap;
    set._map = newMap;
    set.__hash = undefined;
    return set;
  }

  function makeSet(map, ownerID) {
    var set = Object.create(SetPrototype);
    set.size = map ? map.size : 0;
    set._map = map;
    set.__ownerID = ownerID;
    return set;
  }

  var EMPTY_SET;
  function emptySet() {
    return EMPTY_SET || (EMPTY_SET = makeSet(emptyMap()));
  }

  createClass(OrderedSet, Set);

    // @pragma Construction

    function OrderedSet(value) {
      return value === null || value === undefined ? emptyOrderedSet() :
        isOrderedSet(value) ? value :
        emptyOrderedSet().withMutations(function(set ) {
          var iter = value.
          iter.forEach(function(v ) {return set.add(v)});
        });
    }

    OrderedSet.of = function(/*...values*/) {
      return this(arguments);
    };

    OrderedSet.fromKeys = function(value) {
      return this(KeyedIterable(value).keySeq());
    };

    OrderedSet.prototype.toString = function() {
      return this.__toString('OrderedSet {', '}');
    };

    // @pragma Access

    OrderedSet.prototype.get = function(index, notSetValue) {
      var head = this._head;
      index = wrapIndex(this, index);
      while (head && index--) {
        head = head.next;
      }
      return head ? head.value : notSetValue;
    };

    OrderedSet.prototype.peek = function() {
      return this._head && this._head.value;
    };

    // @pragma Modification

    OrderedSet.prototype.push = function(/*...values*/) {
      if (arguments.length === 0) {
        return this;
      }
      var newSize = this.size + arguments.length;
      var head = this._head;
      for (var ii = arguments.length - 1; ii >= 0; ii--) {
        head = {
          value: arguments[ii],
          next: head
        };
      }
      if (this.__ownerID) {
        this.size = newSize;
        this._head = head;
        this.__hash = undefined;
        this.__altered = true;
        return this;
      }
      return makeOrderedSet(newSize, head);
    };

    OrderedSet.prototype.pop = function() {
      return this.slice(1);
    };

    // @pragma Construction

    function createClass(Stack, IndexedCollection) {
      // @pragma Construction
      function Stack(value) {
        return value === null || value === undefined ? emptyStack() :
          isStack(value) ? value :
          emptyStack().unshiftAll(value);
      }

      Stack.of = function(/*...values*/) {
        return this(arguments);
      };

      Stack.prototype.toString = function() {
        return this.__toString('Stack 
```
var resolvedBegin = resolveBegin(begin, this.size);
var resolvedEnd = resolveEnd(end, this.size);
if (resolvedEnd !== this.size) { // super.slice(begin, end); return
IndexedCollection.prototype.slice.call(this, begin, end);
} var newSize = this.size - resolvedBegin;
var head = this._head while (resolvedBegin--) { // head = head.next; // This is where the slice operation
 if (this._ownerID) { // is altered = false; return this;
 var node = this._head; while (node) { // fn(node.value, iterations++, this) == false; break; }
 node = node.next;
 return return makeStack(newSize, head);
 }
 return IndexedCollection.prototype.slice.call(this, begin, end);
}
if (this._ownerID) { // return this;
 this.size = newSize;
 this._head = head;
 this.__hash = undefined;
 this.__altered = true;
 return this;
 }
var resolvedEnd = resolveEnd(end, this.size);
if (resolvedEnd !== this.size) { // super.slice(begin, end);
 return IndexedCollection.prototype.slice.call(this, begin, end);
}
var newSize = this.size - resolvedBegin;
var head = this._head;
while (resolvedBegin--) {
 head = head.next;
}
if (this.__ownerID) {
 this.size = newSize;
 this._head = head;
 this.__hash = undefined;
 this.__altered = true;
 return this;
 }
Stack.prototype.__ensureOwner = function(ownerID) {
 if (ownerID === this._ownerID) {
 return this;
 }
 if (!ownerID) {
 this.__ownerID = ownerID;
 this.__altered = false;
 return this;
 }
 return makeStack(this.size, this._head, ownerID, this.__hash);
}
if (reverse) { // return this.reverse()._iterate(fn);
 var iterations = 0;
 var node = this._head;
 while (node) {
 if (fn(node.value, iterations++, this) == false) {
 break;
 }
 node = node.next;
 return return iterations;
 }
 return this.reverse()._iterate(function(fn, reverse) { // return this.reverse().__iterate(fn);
 if (reverse) { // return this.reverse()._iterate(fn);
 var iterations = 0;
 var node = this._head;
 while (node) {
 if (fn(node.value, iterations++, this) == false) {
 break;
 }
 node = node.next;
 return return iterations;
 }
 return this.reverse()._iterate(function(v, i) { // return array[i] = v; );
 return array;
 }, return toIndexedSeq: function() {
 return new ToIndexedSequence(this);
 }, return toMap: function() {
 // Use Late Binding here to solve the circular dependency.
 return Map(this.toKeyedSeq());
 }, return toObject: function() {
 assertNotInfinite(this.size);
 var object = { this.__iterate(function(v, k) { object[k] = v; });
 return object;
 }, return toOrderedMap: function() { // Use Late Binding here to solve the circular dependency.
 return OrderedMap(this.toKeyedSeq());
 }, return toOrderedSet: function() { // Use Late Binding here to solve the circular dependency.
 return OrderedSet(isKeyed(this) ? this.valueSeq() : this);
 }, return toSet: function() { // Use Late Binding here to solve the circular dependency.
 return Set(isKeyed(this) ? this.valueSeq() : this);
 }, return toString: function() { // Use Late Binding here to solve the circular dependency.
 return return new ToIndexedSequence(this);
 }, return toJS: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJS === 'function' ? value.toJS() : value
 }, __toJS)();
 }, return toJSON: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJSON === 'function' ? value.toJSON() : value
 }, __toJSON)();
 }, return toKeyedSeq: function() { // Use Late Binding here to solve the circular dependency.
 return new ToKeyedSequence(this, true);
 }, return toMap: function() { // Use Late Binding here to solve the circular dependency.
 return Map(this.toKeyedSeq());
 }, return toObject: function() { // Use Late Binding here to solve the circular dependency.
 return new ToIndexedSeq();
 }, return toList: function() { // Use Late Binding here to solve the circular dependency.
 return List(isKeyed(this) ? this.valueSeq() : this);
 }, return toSet: function() { // Use Late Binding here to solve the circular dependency.
 return Set(isKeyed(this) ? this.valueSeq() : this);
 }, return toString: function() { // Use Late Binding here to solve the circular dependency.
 return new ToIndexedSequence();
 }, return toJS: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJS === 'function' ? value.toJS() : value
 }, __toJS)();
 }, return toJSON: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJSON === 'function' ? value.toJSON() : value
 }, __toJSON)();
 }, return toKeyedSeq: function() { // Use Late Binding here to solve the circular dependency.
 return new ToKeyedSequence();
 }, return toMap: function() { // Use Late Binding here to solve the circular dependency.
 return Map(isKeyed(this) ? this.valueSeq() : this);
 }, return toObject: function() { // Use Late Binding here to solve the circular dependency.
 return new ToIndexedSequence();
 }, return toJS: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJS === 'function' ? value.toJS() : value
 }, __toJS)();
 }, return toJSON: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJSON === 'function' ? value.toJSON() : value
 }, __toJSON)();
 }, return toKeyedSeq: function() { // Use Late Binding here to solve the circular dependency.
 return new ToKeyedSequence();
 }, return toMap: function() { // Use Late Binding here to solve the circular dependency.
 return Map(isKeyed(this) ? this.valueSeq() : this);
 }, return toObject: function() { // Use Late Binding here to solve the circular dependency.
 return new ToIndexedSequence();
 }, return toJS: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJS === 'function' ? value.toJS() : value
 }, __toJS)();
 }, return toJSON: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJSON === 'function' ? value.toJSON() : value
 }, __toJSON)();
 }, return toKeyedSeq: function() { // Use Late Binding here to solve the circular dependency.
 return new ToKeyedSequence();
 }, return toMap: function() { // Use Late Binding here to solve the circular dependency.
 return Map(isKeyed(this) ? this.valueSeq() : this);
 }, return toObject: function() { // Use Late Binding here to solve the circular dependency.
 return new ToIndexedSequence();
 }, return toJS: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJS === 'function' ? value.toJS() : value
 }, __toJS)();
 }, return toJSON: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJSON === 'function' ? value.toJSON() : value
 }, __toJSON)();
 }, return toKeyedSeq: function() { // Use Late Binding here to solve the circular dependency.
 return new ToKeyedSequence();
 }, return toMap: function() { // Use Late Binding here to solve the circular dependency.
 return Map(isKeyed(this) ? this.valueSeq() : this);
 }, return toObject: function() { // Use Late Binding here to solve the circular dependency.
 return new ToIndexedSequence();
 }, return toJS: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJS === 'function' ? value.toJS() : value
 }, __toJS)();
 }, return toJSON: function() { // Use Late Binding here to solve the circular dependency.
 return this.toSeq().map(fn(function(value) {
 return return value; // && typeof value.toJSON === 'function' ? value.toJSON() : value
 }, __toJSON)();
 }, return toKeyedSeq: function() { // Use Late Binding here to solve the circular dependency.
isOrdered(Iterable):\n  var keyed = isKeyed(Iterable):\n  var h = ordered ? 1 : 0:\n  var size = iterable._iterate(\n    function(v, k) { \n        h = 31 * h + hashMerge(hash(v), hash(k)) | 0: \n    })(\n      function(v) { \n          h = h + hash(v) | 0: \n      }):\n  return murmurHashOfSize(size, h):\n  var h = imul(h, 0x0CC9E2D51):\n  h = imul(h << 15 | h >>> -15, 0x1B873593):\n  h = imul(h << 13 | h >>> -13, 0xC2B2AE35):\n  h = smi(h ^ h >>> 16):\n  return h:

  function murmurHashOfSize(size, h) {\n    h = imul(h, 0xCC9E2D51):\n    h = imul(h << 15 | h >>> -15, 0x1B873593):\n    h = imul(h << 13 | h >>> -13, 5):\n    h = (h + 0xE6546B64) | 0: \n    return h:

  }\n
  function hashMerge(a, b) {\n    return a ^ b + 0x9E3779B9 + (a << 6) + (a >> 2) | 0: \n  }

function invariant(condition, format, args) {\n  if (process.env.NODE_ENV !== 'production') {
    validateFormat(format);

    if (!condition) {
      var error;
      if (format === undefined) {
        error = new Error('Minified exception occurred; use the non-minified dev environment + for the full error message and additional helpful warnings.');\n      } else {
        var args = [a, b, c, d, e, f];
        var argIndex = 0;
        error = new Error(format.replace(/%s/g, function () {\n          return args[argIndex++];\n        }));
      }

      error.name = 'Invariant Violation';\n      error.framesToPop = 1; // we don't care about invariant's own frame\n      throw error;\n    }
  }

  return true;
}

module.exports = invariant;
```javascript
// constants
export const validateBoolean = (val) => {
  if (!isBoolean(val)) {
    return 'Value must be a boolean'
  }
}

export const validateFile = (val) => {
  if (!isFile(val)) {
    return 'Value must be a file'
  }
}

export const validateInteger = (val) => {
  if (typeof val !== 'number' || !/^-?\d+$/.test(val)) {
    return 'Value must be an integer'
  }
}

export const validateNumber = (val) => {
  if (typeof val !== 'number' || !/^-?\d+(\.?\d+)?$/.test(val)) {
    return 'Value must be a number'
  }
}

export const validateMaximum = (val, max) => {
  if (val > max) {
    return 'Value must be less than Maximum'
  }
}

export const validateMinimum = (val, min) => {
  if (val < min) {
    return 'Value must be greater than Minimum'
  }
}

export const validateObject = (val) => {
  if (typeof val !== 'object' || !Object.isPrototypeOf(val)) {
    return 'Value must be an object'
  }
}

export const validateString = (val) => {
  if (typeof val !== 'string') {
    return 'Value must be a string'
  }
}

export const validateTime = (val) => {
  if (typeof val !== 'string' || !/\d{2}:[0-5]?\d\s(AM|PM)$/.test(val)) {
    return 'Value must be a time in 12-hour format'
  }
}

export const validateURL = (val) => {
  if (typeof val !== 'string' || !/^(https?:\/\/)?[\w.-]+(?:[\w\.-]*\.[\w\.-]+)*(?:[\w\.-][\w\.-]*[\w\.-])?$/i.test(val)) {
    return 'Value must be a valid URL'
  }
}

export const validateWhitespace = (val) => {
  if (typeof val !== 'string' || !/^[\s\S]*$/i.test(val)) {
    return 'Value must be a string of whitespace characters'
  }
}
```

```javascript
const validateString = (val) => {
  if (typeof val !== 'string') {
    return 'Value must be a string'
  }
}

const validateDateTime = (val) => {
  if (!/\^[a-zA-Z0-9\-_.+]*\.$/.test(val)) {
    return 'Value must be a valid date-time'
  }
}

const validateGuid = (val) => {
  val = val.toString().toLowerCase()
  if (!/^[\{\[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}\}\]?$/.test(val)) {
    return 'Value must be a valid GUID'
  }
}

const validateMaxLength = (val, max) => {
  if (val.length > max) {
    return 'Value must be less than maxLength'
  }
}

const validateMinLength = (val, min) => {
  if (val.length < min) {
    return 'Value must be greater than minLength'
  }
}

const validatePattern = (val, rxPattern) => {
  var patt = new RegExp(rxPattern)
  if (!patt.test(val)) {
    return 'Value must follow pattern ' + rxPattern
  }
}

const validateParam = (param, value, { isOAS3 = false, bypassRequiredCheck = false } = {}) => {
  let errors = []
  let required = param.get('required')
  let paramDetails = isOAS3 ? param.get('schema') : param

  if (!paramDetails) return errors

  const maximum = paramDetails.get('maximum')
  const minimum = paramDetails.get('minimum')
  const type = paramDetails.get('type')
  const format = paramDetails.get('format')
  const maxLength = paramDetails.get('maxLength')
  const minLength = paramDetails.get('minLength')
  const pattern = paramDetails.get('pattern')

  if (required || value) {
    // These checks should evaluate to true if there is a parameter
    let stringCheck = type === 'string' && value
    let arrayCheck = type === 'array' && Array.isArray(value) && value.length
    let listCheck = type === 'array' && Im.List.isList(value) && value.count()
    let fileCheck = type === 'file'
    let fileInstanceof = win.File.prototype
    let booleanCheck = type === 'boolean'
    let numberCheck = type === 'number'
    let integerCheck = type === 'integer'
    let oas3ObjectCheck = false
    if (isOAS3 && type === 'object') {
      if (typeof value === 'object') {
        oas3ObjectCheck = true
      } else if (typeof value === 'string') {
        try {
          JSON.parse(value)
          oas3ObjectCheck = true
        } catch (e) {
          errors.push('Parameter string value must be valid JSON')
          return errors
        }
      }
    }

    const allChecks = [stringCheck, arrayCheck, listCheck, fileCheck, booleanCheck, numberCheck, integerCheck, oas3ObjectCheck]

    const passedAnyCheck = allChecks.some(v => !!v)

    if (required && !passedAnyCheck && !bypassRequiredCheck) {
      errors.push('Required field is not provided')
      return errors
    }

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minLength) {
      let err = validateMinLength(value, minLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinimum(value, minimum)
      if (err) errors.push(err)
    }

    if (type === 'string') {
      let err
      if (format === 'date-time') {
        err = validateDateTime(value)
      } else if (format === 'uuid') {
        err = validateGuid(value)
      } else {
        err = validateString(value)
      }
      if (!err) return errors
      errors.push(err)
    } else if (type === 'boolean') {
      let err = validateBoolean(value)
      if (!err) return errors
      errors.push(err)
    } else if (type === 'number') {
      let err = validateNumber(value)
      if (!err) return errors
      errors.push(err)
    } else if (type === 'integer') {
      let err = validateInteger(value)
      if (!err) return errors
      errors.push(err)
    } else if (type === 'array') {
      let itemType
      if (listCheck || (value.length === 0) || value.count() == 0) {
        let err
        if (itemType === 'number') {
          err = validateNumber(item)
        } else if (itemType === 'integer') {
          err = validateInteger(item)
        } else if (itemType === 'string') {
          err = validateString(item)
        }
        if (err) errors.push(err)
      }
    } else if (type === 'file') {
      let err = validateFile(value)
      if (!err) return errors
      errors.push(err)
    }
  }

  return errors
}
```

---

Open Source Used In SD Wan 20.6.1 21205
contentType="", config={}) => {
  if (/xml/.test(contentType)) {
    if (!schema.xml || !schema.xml.name) {
      schema.xml = schema.xml || {}
      if (schema.$$ref) {
        let match = schema.$$ref.match(/\S*\/(\S+)$/)
        schema.xml.name = match[1]
      } else if (schema.type || schema.items || schema.properties || schema.additionalProperties) {
        return "<?xml version="1.0" encoding="UTF-8"?>" + XML
      }
    }
    return memoizedCreateXMLExample(schema, config)
  }

  const res = memoizedSampleFromSchema(schema, config)
  return typeof res === "object" ? JSON.stringify(res, null, 2) : res
}

export const parseSearch = () => {
  let map = {}
  let search = win.location.search
  if (!search)
    return map

  if (search != "") {
    let params = search.substr(1).split("&")
    for (let i in params) {
      if (!params.hasOwnProperty(i)) {
        continue
      }
      i = params[i].split("=")
      map[decodeURIComponent(i[0])] = (i[1] && decodeURIComponent(i[1])) || ""
    }
  }
  return map
}

export const serializeSearch = (searchMap) => {
  return Object.keys(searchMap).map(k => {
    return encodeURIComponent(k) + "=" + encodeURIComponent(searchMap[k])
  }).join("&")
}

export const btoa = (str) => {
  let buffer
  if (str instanceof Buffer) {
    buffer = str
  } else {
    buffer = new Buffer(str.toString(), "utf-8")
  }
  return buffer.toString("base64")
}

export const sorters = {
  operationsSorter: {
    alpha: (a, b) => a.get("path").localeCompare(b.get("path")),
    method: (a, b) => a.get("method").localeCompare(b.get("method"))
  },
  tagsSorter: {
    alpha: (a, b) => a.localeCompare(b)
  }
}

export const buildFormData = (data) => {
  let formArr = [

  for (let name in data) {
    let val = data[name]
    if (val !== undefined && val !== "") {
      formArr.push([name, "=", encodeURIComponent(val).replace(/%20/g,"+"].join(""))
    }
  }
  return formArr.join("&")
}

// Is this really required as a helper? Perhaps. TODO: expose the system of presets.apis in docs, so we know what is supported
export const shallowEqualKeys = (a, b, keys) => {
  return !!find(keys, (key) => eq(a[key], b[key])
}

export function sanitizeUrl(url) {
  if (typeof url !== "string" || url === "") {
    return ""
  }
  return braintreeSanitizeUrl(url)
}

export function getAcceptControllingResponse(responses) {
  if (!Im.OrderedMap.isOrderedMap(responses)) {
    // wrong type!
    return null
  }
  if (!responses.size) {
    // responses is empty
    return null
  }
  const suitable2xxResponse = responses.find((res, k) => {
    return k.startsWith("2") && Object.keys(res.get("content") || {}).length > 0
  })
  const defaultResponse = responses.get("default") || Im.OrderedMap()
  const defaultResponseMediaTypes = (defaultResponse.get("content") || Im.OrderedMap()).keySeq().toJS()
  const suitableDefaultResponse = defaultResponseMediaTypes.length ? defaultResponse : null
  return suitable2xxResponse || suitableDefaultResponse
}

export const createDeepLinkPath = (str) => typeof str == "string" || str instanceof String ? str.trim().replace(/\s/g, "%20") : ""
export const escapeDeepLinkPath = (str) => cssEscape(createDeepLinkPath(str).replace(/%20/g, "_")

export const getExtensions = (defObj) => defObj.filter((v, k) => /^x-/.test(k))
export const getCommonExtensions = (defObj) => defObj.filter((v, k) => /^pattern|maxLength|minLength|maximum|minimum/.test(k))

export function deeplyStripKey(input, keyToStrip, predicate = () => true) {
  if (typeof input !== "object" || Array.isArray(input) || input === null || !keyToStrip) {
    return input
  }
  let obj = Object.assign({}, input)
  Object.keys(obj).forEach(k => {
    if (k === keyToStrip && predicate(obj[k], k)) {
      delete obj[k]
    }
  })
}

export function stringify(thing) {
  if (typeof thing === "string") {
    return thing
  }
  if (thing && thing.toJS) {
    thing = thing.toJS()
  }
  if (typeof thing === "object" && thing !== null) {
    try {
      return JSON.stringify(thing, null, 2)
    } catch (e) {
      try {
        return String(thing)
      } catch (e) {
        return null
      }
    }
  } else if (typeof thing === "undefined") {
    return null
  } else {
    return thing.toString() || thing
  }
}

export function numberToString(thing) {
  return typeof thing === "number" ? thing.toString() : thing
}

export function paramToIdentifier(param, { returnAll = false, allowHashes = true } = {}) {
  if (!Im.Map.isMap(param)) {
    throw new Error("paramToIdentifier: received a non-Im.Map parameter as input")
  }
  let obj = param
  if (returnAll) {
    if (allowHashes) {
      return Im.Map.isMap(param)
    }
  }
  return obj
}
```javascript
param.get("name")
const paramIn = param.get("in")
let generatedIdentifiers = []
// Generate identifiers in order of most to least specificity if (param && param.hashCode && paramIn && paramName && allowHashes) {
  generatedIdentifiers.push(`${paramIn}.${paramName}.hash-${param.hashCode()}
```
var propValue = props[propName];
if (!immutableClassTypeValidator(propValue)) {
  var locationName = location;
  var propType = getPropType(propValue);
  return new Error("Invalid \"locationName\" + \"\" + propFullName + \"\" + propType + \"\" supplied to \"\" + componentName + \"\", expected an Immutable.js \" + immutableClassName + \"\\")
}

var propValues = propValue.toArray();
for (var i = 0, len = propValues.length; i < len; i++) {
  var error = typeChecker.apply(underscore, [propValues, i, componentName, location, \"\" + propFullName + \"\".concat(rest)])
  if (error instanceof Error) {
    return error;
  }
}
  return createChainableTypeChecker(validate);
}

function createKeysTypeChecker(typeChecker) {

  function validate(props, propName, componentName, location, propFullName) {
    for (var _len = arguments.length, rest = Array(_len > 5 ? _len - 5 : 0), _key = 5; _key < _len; _key++) {
      rest[_key - 5] = arguments[_key];
    }

    var propValue = props[propName];
    if (typeof typeChecker !== "function") {
      return new Error("Invalid keysTypeChecker (optional second argument) supplied to \" keySeq() + Array()\" for propType \" + propFullName + \"\", expected a function.)
    }

    var keys = propValue.keySeq().toArray();
    for (var i = 0, len = keys.length; i < len; i++) {
      var error = typeChecker.apply(underscore, [keys, i, componentName, location, \"\" + propFullName + \"\".concat(rest)])
      if (error) {
        return error;
      };
    }
  }
  return createChainableTypeChecker(validate);
}

// there is some irony in the fact that shapeTypes is a standard hash
function createShapeTypeChecker(shapeTypes) {
  var immutableClassName = arguments[1] === undefined ? "Iterable" : arguments[1];
  var immutableClassTypeValidator = arguments[2];

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undefined ? Immutable.Iterable.isIterable : arguments[2];\n\n function validate(props, propName, componentName,
location, propFullName) {\n for (var _len = arguments.length, rest = Array(_len > 5 ? _len - 5 : 0), _key = 5; _key
< _len; _key++) {\n
rest[_key - 5] = arguments[_key];\n }\n\n var propValue = props[propName];\n if
(!immutableClassTypeValidator(propValue)) {\n
var propType = getPropType(propValue);\n
var
locationName = location;\n
return new Error(\"Invalid \" + locationName + \" `\" + propFullName + \"` of type
`\" + propType + \"` \" + (\"supplied to `\" + componentName + \"`, expected an Immutable.js \" +
immutableClassName + \".\"));\n }\n var mutablePropValue = propValue.toObject();\n for (var key in
shapeTypes) {\n
var checker = shapeTypes[key];\n
if (!checker) {\n
continue;\n
}\n
var error =
checker.apply(undefined, [mutablePropValue, key, componentName, location, \"\" + propFullName + \".\" +
key].concat(rest));\n
if (error) {\n
return error;\n
}\n }\n }\n return
createChainableTypeChecker(validate);\n}\n\nfunction createShapeChecker(shapeTypes) {\n return
createShapeTypeChecker(shapeTypes);\n}\n\nfunction createMapContainsChecker(shapeTypes) {\n return
createShapeTypeChecker(shapeTypes, \"Map\", Immutable.Map.isMap);\n}\n\nmodule.exports =
ImmutablePropTypes;\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/react-immutableproptypes/dist/ImmutablePropTypes.js\n// module id = 10\n// module chunks = 0","/**\n * Copyright (c) 2014present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in
the root directory of this source tree.\n *\n */\n\n'use strict';\n\nvar emptyFunction =
require('./emptyFunction');\n\n/**\n * Similar to invariant but only logs a warning if the condition is not met.\n *
This can be used to log issues in development environments in critical\n * paths. Removing the logging code for
production environments will keep the\n * same logic and follow the same code paths.\n */\n\nvar warning =
emptyFunction;\n\nif (process.env.NODE_ENV !== 'production') {\n var printWarning = function
printWarning(format) {\n for (var _len = arguments.length, args = Array(_len > 1 ? _len - 1 : 0), _key = 1; _key <
_len; _key++) {\n
args[_key - 1] = arguments[_key];\n }\n\n var argIndex = 0;\n var message = 'Warning: '
+ format.replace(/%s/g, function () {\n
return args[argIndex++];\n });\n if (typeof console !== 'undefined') {\n
console.error(message);\n }\n try {\n
// --- Welcome to debugging React ---\n
// This error was thrown
as a convenience so that you can use this stack\n
// to find the callsite that caused this warning to fire.\n
throw
new Error(message);\n } catch (x) {}\n };\n\n warning = function warning(condition, format) {\n if (format
=== undefined) {\n
throw new Error('`warning(condition, format, ...args)` requires a warning ' + 'message
argument');\n }\n\n if (format.indexOf('Failed Composite propType: ') === 0) {\n
return; // Ignore
CompositeComponent proptype check.\n }\n\n if (!condition) {\n
for (var _len2 = arguments.length, args =
Array(_len2 > 2 ? _len2 - 2 : 0), _key2 = 2; _key2 < _len2; _key2++) {\n
args[_key2 - 2] = arguments[_key2];\n
}\n\n
printWarning.apply(undefined, [format].concat(args));\n }\n };\n}\n\nmodule.exports =
warning;\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/fbjs/lib/warning.js\n// module id = 11\n//
module chunks = 0","/**\n * Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under
the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n *\n * \n */\n'use
strict';\n\n/**\n * WARNING: DO NOT manually require this module.\n * This is a replacement for `invariant(...)`
used by the error code system\n * and will _only_ be required by the corresponding babel pass.\n * It always
throws.\n */\n\nfunction reactProdInvariant(code) {\n var argCount = arguments.length - 1;\n\n var message =
'Minified React error #' + code + '; visit ' + 'http://facebook.github.io/react/docs/error-decoder.html?invariant=' +
code;\n\n for (var argIdx = 0; argIdx < argCount; argIdx++) {\n message += '&args[]=' +
encodeURIComponent(arguments[argIdx + 1]);\n }\n\n message += ' for the full message or use the non-minified
dev environment' + ' for full errors and additional helpful warnings.';\n\n var error = new Error(message);\n
error.name = 'Invariant Violation';\n error.framesToPop = 1; // we don't care about reactProdInvariant's own
frame\n\n throw error;\n}\n\nmodule.exports = reactProdInvariant;\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/react-dom/lib/reactProdInvariant.js\n// module id = 12\n// module chunks = 0","/*\nobjectassign\n(c) Sindre Sorhus\n@license MIT\n*/\n\n'use strict';\n/* eslint-disable no-unused-vars */\nvar
getOwnPropertySymbols = Object.getOwnPropertySymbols;\nvar hasOwnProperty =
Object.prototype.hasOwnProperty;\nvar propIsEnumerable = Object.prototype.propertyIsEnumerable;\n\nfunction

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toObject(val) { 'nullif (val === null || val === undefined) { 'nullifthrow new TypeError('Object.assign cannot be called with null or undefined'); 'nullifreturn Object(val); 'nullif

function shouldUseNative() {
  try {
    if (!Object.assign) {
      return false;
    }

    // Detect buggy property enumeration order in older V8 versions.

    var test1 = new String('abc'); // eslint-disable-line new-cap
    if (Object.getOwnPropertyNames(test1)[0] !== '0') {
      return false;
    }

    var test2 = String.fromCharCode(1, 2, 3);
    if (Object.getOwnPropertyNames(test2)[0] !== '1') {
      return false;
    }

    return true;
  } catch (err) {
    return false;
  }
}

module.exports = shouldUseNative() ? Object.assign : function (target, source){
  var from;
  var to = toObject(target);

  for (var s = 1; s < arguments.length; s++) {
    from = Object(arguments[s]);

    for (var key in from) {
      if (hasOwnProperty.call(from, key)) {
        to[key] = from[key];
      }
    }
  }

  return to;
};

let obj = { a: 1, b: 2, c: 3 };
let target = { a: 10, b: 20, c: 30, d: 40 };
let result = Object.assign(target, obj);
console.log(result); // Output: { a: 10, b: 20, c: 30, d: 40, e: 40, f: 40, g: 40, h: 40, i: 40, j: 40, k: 40, l: 40, m: 40, n: 40, o: 40, p: 40, q: 40, r: 40, s: 40, t: 40, u: 40, v: 40, w: 40, x: 40, y: 40, z: 40 }
var childNode = node.firstChild; 

for (var name in children) {
  if (!children.hasOwnProperty(name)) {
    continue;
  }
  var childInst = children[name];
  var childID = getRenderedHostOrTextFromComponent(childInst)._domID;
  if (childID === 0) {
    // We're currently unmounting this child in ReactMultiChild; skip it.
    continue;
  }
  // We reached the end of the DOM children without finding an ID match.
  if (shouldPrecacheNode(childNode, childID)) {
    precacheNode(childInst, childNode);
    continue;
  }
  inst._flags |= Flags.hasCachedChildNodes;
}

/**
 * Given a DOM node, return the closest ReactDOMComponent or ReactDOMTextComponent instance ancestor.
 */
function getClosestInstanceFromNode(node) {
  if (node[internalInstanceKey]) {
    return node[internalInstanceKey];
  }

  // Walk up the tree until we find an ancestor whose instance we have cached.
  var parents = [];
  while (!node[internalInstanceKey]) {
    parents.push(node);
    if (node.parentNode) {
      node = node.parentNode;
    } else {
      // Top of the tree. This node must not be part of a React tree (or is unmounted, potentially).
      return null;
    }
  }

  var closest;
  var inst;
  for (; node && (inst = node[internalInstanceKey]); node = parents.pop()) {
    closest = inst;
    if (parents.length) {
      precacheChildNodes(inst, node);
    }
  }

  return closest;
}

/**
 * Given a DOM node, return the ReactDOMComponent or ReactDOMTextComponent
 * instance, or null if the node was not rendered by this
 * ReactDOMComponent or ReactDOMTextComponent instance.
 */
function getInstanceFromNode(node) {
  var inst = getClosestInstanceFromNode(node);
  if (inst != null && inst._hostNode === node) {
    return inst;
  } else {
    return null;
  }
}

/**
 * Given a
 * ReactDOMComponent or ReactDOMTextComponent,
 * return the corresponding
 * DOM node.
 */
function getNodeFromInstance(inst) {
  // Without this first invariant, passing a non-DOM-component triggers the next invariant for a missing parent, which is super confusing.
  if (inst._hostNode !== undefined) {
    throw new YAMLException('Invalid argument.');
  }

  if (inst._hostNode) {
    return inst._hostNode;
  }

  // Walk up the tree until
  // we find an ancestor whose DOM node we have cached.
  var parents = [];
  while (!inst._hostNode) {
    parents.push(inst);
    if (!inst._hostParent) {
      throw new YAMLException('React DOM tree root should always have a node reference.');
    }
    inst = inst._hostParent;
  }

  // Now parents contains each ancestor that does not have a cached native
  // node, and `inst` is the deepest ancestor that does.
  for (; parents.length; inst = parents.pop()) {
    precacheChildNodes(inst, inst._hostNode);
  }

  return inst._hostNode;
}

var ReactDOMComponentTree = {
  getClosestInstanceFromNode: getClosestInstanceFromNode,
  getInstanceFromNode: getInstanceFromNode,
  getNodeFromInstance: getNodeFromInstance,
  precacheChildNodes: precacheChildNodes,
  precacheNode: precacheNode,
  uncacheNode: uncacheNode
};

module.exports = ReactDOMComponentTree;
```
"use strict";

exports.__esModule = true;

var _defineProperty = require("../core-js/object/define-property");

var _defineProperty2 = _interopRequireDefault(_defineProperty);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (obj, key, value) {
  if (key in obj) {
    (0, _defineProperty2.default)(obj, key, {
      value: value,
      enumerable: true,
      configurable: true,
      writable: true
    });
  } else {
    obj[key] = value;
  }
}

module.id = 21;

module.exports = function () {
  module.chunks = 0;";https://github.com/zloirock/core-js/issues/68#issuecomment-115759028

var global = module.exports = typeof window !== "undefined" && window;

if (typeof __g === "number") __g = global; // eslint-disable-next-line no-new-func

module.exports = { "default": require("core-js/library/fn/object/assign"), __esModule: true };

function isArray(obj) {
  return Array.isArray(obj);
}

```

true" if `value` is an object, else 'false'.

```javascript
function isObject(value) {
  return value != null && (typeof value == 'object' || typeof value == 'function');
}
```

module.exports = isObject;

---

/*
 * Copyright (c) 2016-present, Facebook, Inc.
 *
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 *
 */

'use strict';

/*
 * Trust the developer to only use ReactInstrumentation with a __DEV__ check
 */

var debugTool = null;

if (process.env.NODE_ENV !== 'production') {
  var ReactDebugTool = require('./ReactDebugTool');
  debugTool = ReactDebugTool;
}

module.exports = {
  debugTool: debugTool
};

---

/**
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 *
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant'),
    _assign = require('object-assign');

var CallbackQueue = require('./CallbackQueue');
var PooledClass = require('./PooledClass');
var ReactFeatureFlags = require('./ReactFeatureFlags');
var ReactReconciler = require('./ReactReconciler');
var Transaction = require('./Transaction');

var invariant = require('fbjs/lib/invariant');

var dirtyComponents = 
updateBatchNumber = 0;
var asapCallbackQueue = CallbackQueue.getPooled();
var asapEnqueued = false;

var ReactUpdateTransaction = require('./ReactUpdateTransaction');

var _assign = require('object-assign');

var CallbackQueue = require('./CallbackQueue');
var PooledClass = require('./PooledClass');
var ReactFeatureFlags = require('./ReactFeatureFlags');
var ReactReconciler = require('./ReactReconciler');
var Transaction = require('./Transaction');

// WEBPACK FOOTER
// ./node_modules/lodash/isObject.js
module.exports = isObject;

---

import React from "react"

export function isOAS3(jsSpec) {
  const oasVersion = jsSpec.get("openapi")
  if(typeof oasVersion !== "string") {
    return false
  }

  // we gate against 3.1 because we want to explicitly opt into supporting it in // at some point in the future -- KS, 7/2018

  // starts with, but is not `3.0.` exactly
  return oasVersion.startsWith("3.0.") && oasVersion.length > 4
}

export function isSwagger2(jsSpec) {
  const swaggerVersion = jsSpec.get("swagger")
  if(typeof swaggerVersion !== "string") {
    return false
  }

  return swaggerVersion.startsWith("2.0")
}

export function OAS3ComponentWrapFactory(Component) {
  return (Ori, system) => (props) => {
    if(system && system.specSelectors && system.specSelectors.specJson) {
      const spec = system.specSelectors.specJson()

      if(isOAS3(spec)) {
        return <Component {...props} {...system} Ori={Ori}></Component>
      } else {
        return <Ori {...props}></Ori>
      }
    } else {
      console.warn("OAS3 wrapper: couldn't get spec")
      return null
    }
  }
}

---

!require('./_fails')(function () {
  return Object.defineProperty({}, 'a', { get: function () { return 7; } }).a != 7;
});

module.exports = { "default": require("core-js/library/fn/json/stringify"), __esModule: true };

---

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      } else {
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      }
    } else {
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      return null
    }
  }
}

---

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      const spec = system.specSelectors.specJson()

      if(isOAS3(spec)) {
        return <Component {...props} {...system} Ori={Ori}></Component>
      } else {
        return <Ori {...props}></Ori>
      }
    } else {
      console.warn("OAS3 wrapper: couldn't get spec")
      return null
    }
  }
}
this.reinitializeTransaction();
this.dirtyComponentsLength = null;
this.callbackQueue = CallbackQueue.getPooled();
this.reconcileTransaction = ReactUpdates.ReactReconcileTransaction.getPooled();

getTransactionWrappers: function () {
  return TRANSACTION_WRAPPERS;
}

destructor: function () {
  this.dirtyComponentsLength = null;
  CallbackQueue.release(this.callbackQueue);
  this.callbackQueue = null;
  ReactUpdates.ReactReconcileTransaction.release(this.reconcileTransaction);
}

perform: function (method, scope, a) {
  // Essentially calls `this.reconcileTransaction.perform(method, scope, a)`.
}

_assign(ReactUpdatesFlushTransaction.prototype, Transaction, {
  getTransactionWrappers: function () {
    return TRANSACTION_WRAPPERS;
  },

  destructor: function () {
    this.dirtyComponentsLength = null;
    CallbackQueue.release(this.callbackQueue);
    this.callbackQueue = null;
    ReactUpdates.ReactReconcileTransaction.release(this.reconcileTransaction);
  },

  perform: function (method, scope, a) {
    // Essentially calls `this.reconcileTransaction.perform(method, scope, a)`.
    return Transaction.perform.call(this, this.reconcileTransaction.perform, method, scope, a);
  }
});

PooledClass.addPoolingTo(ReactUpdatesFlushTransaction);

function batchedUpdates(callback, a, b, c, d, e) {
  ensureInjected();
  return batchingStrategy.batchedUpdates(callback, a, b, c, d, e);
}

/**
 * Array comparator for ReactComponents by mount ordering.
 *
 * @param {ReactComponent} c1 first component you're comparing
 * @param {ReactComponent} c2 second component you're comparing
 * @return {number}
 * Return value usable by Array.prototype.sort().
 */
function mountOrderComparator(c1, c2) {
  return c1._mountOrder - c2._mountOrder;
}

function runBatchedUpdates(transaction) {
  var len = transaction.dirtyComponentsLength;
  !(len === dirtyComponents.length) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Expected flush transaction\'s stored dirty-components length (%s) to match dirty-components array length (%s).', len, dirtyComponents.length) : _prodInvariant('124', len, dirtyComponents.length) : void 0;

  // Since reconciling a component higher in the owner hierarchy usually (not always -- see shouldComponentUpdate()) will reconcile children, reconcile them before their children by sorting the array.

  dirtyComponents.sort(mountOrderComparator);

  // Any updates enqueued while reconciling must be performed after this entire batch. Otherwise, if dirtyComponents is [A, B] where A has children B and C, B could update twice in a single batch if C's render enqueues an update before B (since B would have already updated, we should skip it, and the only way we can know to do so is by checking the batch counter).

  updateBatchNumber++;

  for (var i = 0; i < len; i++) {
    var component = dirtyComponents[i];

    // If performUpdateIfNecessary happens to enqueue any new updates, we shouldn't execute the callbacks until the next render happens, so stash the callbacks first
    var callbacks = component._pendingCallbacks;

    component._pendingCallbacks = null;
    var markerName;
    if (ReactFeatureFlags.logTopLevelRenders) {
      var namedComponent = component;
      // Duck type TopLevelWrapper. This is probably always true.
      if (component._currentElement.type.isReactTopLevelWrapper) {
        namedComponent = component._renderedComponent;
      }
      markerName = 'React update: ' + namedComponent.getName();
    }

    ReactReconciler.performUpdateIfNecessary(component, transaction.reconcileTransaction, updateBatchNumber);

    if (markerName) {
      console.timeEnd(markerName);
    }

    if (callbacks) {
      for (var j = 0; j < callbacks.length; j++) {
        transaction.callbackQueue.enqueue(callbacks[j], component.getPublicInstance());
      }
    }
  }
}

var flushBatchedUpdates = function () {
  // ReactUpdatesFlushTransaction's wrappers will clear the dirtyComponents array and perform any updates enqueued by mount-ready handlers (i.e., componentDidUpdate) but we need to check here too in order to catch updates enqueued by setState callbacks and asap calls.

  while (dirtyComponents.length || asapEnqueued) {
    if (dirtyComponents.length) {
      var transaction = ReactUpdatesFlushTransaction.getPooled();
      transaction.perform(runBatchedUpdates, null, transaction);
      ReactUpdatesFlushTransaction.release(transaction);
    }

    if (asapEnqueued) {
      asapEnqueued = false;
      var queue = asapCallbackQueue;
      asapCallbackQueue = CallbackQueue.getPooled();
      queue.notifyAll();
      CallbackQueue.release(queue);
    }
  }
}
render aren't nested; 
// verify that that's the case. (This is called by each top-level update
// function, like setState, forceUpdate, etc.; creation and
// destruction of top-level components is guarded in ReactMount.) 

if (!batchingStrategy.isBatchingUpdates) {
  batchingStrategy.batchedUpdates(enqueueUpdate, component);
  return;
}

dirtyComponents.push(component);
if (component._updateBatchNumber == null) {
  component._updateBatchNumber = updateBatchNumber + 1;
}

asapQueued = true;

var ReactUpdatesInjection = {
  injectReconcileTransaction: function (ReconcileTransaction) {
    ReconcileTransaction = ReconcileTransaction;
  },

  injectBatchingStrategy: function (_batchingStrategy) {
    batchingStrategy = _batchingStrategy;
  }
};

var ReactUpdates = {
  batchedUpdates: batchedUpdates,
  enqueueUpdate: enqueueUpdate,
  flushBatchedUpdates: flushBatchedUpdates,
  injection: ReactUpdatesInjection,
  asap: asap
};

module.exports = ReactUpdates;


//////////////////
// WEBPACK FOOTER
// ./node_modules/babel-runtime/helpers/typeof.js
// module id = 46
// module chunks = 0

```
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory
 * of this source tree.
 *
 */

'use strict';

/**
 * Checks if `value` is object-like. A value is object-like if it's not `null`
 * and has a `typeof` result of "object".
 *
 * ```
 * isObjectLike(isNull)  // false
 * isObjectLike(isEmptyObject)  // true
 * ```
 *
 * @param {*} value
 * @return {boolean}
 */

function isObjectLike(value) {
  return !!value && typeof value === 'object';
}

```

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```
into the pool.

> *An persist: function () { 
>    this.isPersistent = emptyFunction.thatReturnsTrue; 
>  },

Checks if this event should be released back into the pool.

> *An * @return {boolean} True if this should not be released, false otherwise.

> *An isPersistent: emptyFunction.thatReturnsFalse,

> * "PooledClass" looks for "destructor" on each instance it releases.

> *An destructor: function () { 
>   var Interface = 
>   this.constructor.Interface;
>   for (var propName in Interface) { 
>     if (process.env.NODE_ENV !== 'production') {
>       Object.defineProperty(this, propName, getPoolingWarningPropertyDefinition(propName, 
>         Interface[propName]));
>     } else { 
>       this[propName] = null;
>     }
>   }
>   for (var i = 0; i < shouldBeReleasedProperties.length; i++) {
>     this[shouldBeReleasedProperties[i]] = null;
>   }
>   if (process.env.NODE_ENV !== 'production') {
>     Object.defineProperty(this, 'nativeEvent', 
>       getPoolingWarningPropertyDefinition('nativeEvent', null));
>     Object.defineProperty(this, 'preventDefault', 
>       getPoolingWarningPropertyDefinition('preventDefault', emptyFunction));
>   }
>   Object.defineProperty(this, 'stopPropagation', 
>     getPoolingWarningPropertyDefinition('stopPropagation', emptyFunction));
> }
>

> { 
>   Object defineProperty(this, 'nativeEvent', 
>     new Object);
>   var Interface = EventInterface;
>   var**star** * Helper to reduce boilerplate when creating subclasses.

> *An * @param {function} Class

> *An SyntheticEvent.augmentClass = function (Class, Interface) { 
>   var Super = this;
>   E.prototype = Super.prototype;
>   var prototype = new E();
>   _assign(prototype, Class.prototype);
>   varDTV = Class.prototype.constructor = Class;
>   Interface = _assign([], Super.Interface);
>   Class.augmentClass = Super.augmentClass;
>   PooledClass.addPoolingTo(Class,
>     PooledClass.fourArgumentPooler);
>   WorkspaceProxy after everything set on SyntheticEvent

> * to resolve proxy issue on some WebKit browsers

> * in which some Event properties are set to undefined (GH#10010)

> *null

> if (process.env.NODE_ENV !== 'production') { 
>   Object.defineProperty(this, propName, getPoolingWarningPropertyDefinition(propName, 
>     Interface[propName]));
> }

> var dP = require('./_object-dp');
> var createDesc = require('./_property-desc');
> module.exports = require('./_descriptors') ? function (object, key, value) {
>   return dP.f(object, key, createDesc(1, value));
> } : function (object, key, value) {
>   object[key] = value;
>   return object;
> };
Open Source Used In SDWan
throw new TypeError('Arguments must be Buffers')

\n
function slowToString (encoding, start, end) {
  var loweredCase = false

  // No need to verify that "this.length <= MAX_UINT32" since it's a read-only
  // property of a typed array.
  // This behaves neither like String nor Uint8Array in that we set start/end
  // to their upper/lower bounds if the value passed is out of range.
  undefined is handled specially as per ECMA-262 6th Edition.,
  // Section 13.3.3.7 Runtime Semantics:
  KeyedBindingInitialization.
  if (start === undefined || start < 0) {
    start = 0
  }
  // Return early if start >
  this.length. Done here to prevent potential uint32
  // coercion fail below.
  if (start > this.length) {
    return ''
  }

  var len = this.length
  for (i = 0; i < len; ++i) {
    if (a[i] !== b[i]) {
      x = a[i]
      y = b[i]
      break
    }
  }

  if (x < y) return -1
  if (y < x) return 1
  return 0
}

Buffer.isEncoding = function isEncoding (encoding) { return true

  // Arguments must be an Array of Buffers
  function Buffer.allocUnsafe (length) {
    return Buffer.allocUnsafeUnsafe(length)
  }

  var buffer
  function byteLength (string, encoding) {
    var loweredCase = false

    // This behaves neither like String nor
    // Uint8Array in that we set start/end
    // to their upper/lower bounds if the value passed is out of range.
    // undefined is handled specially as per ECMA-262 6th Edition,
    // Section 13.3.3.7 Runtime Semantics:
    KeyedBindingInitialization.
    if (start === undefined || start < 0) {
      start = 0
    }
    // Return early if start >
    this.length. Done here to prevent potential uint32
    // coercion fail below.
    if (start > this.length) {
      return ''
    }

    var len = this.length
    for (i = 0; i < len; ++i) {
      if (a[i] !== b[i]) {
        x = a[i]
        y = b[i]
        break
      }
    }

    if (x < y) return -1
    if (y < x) return 1
    return 0
}

Buffer.isEncoding = function isEncoding (encoding) { return true

  // Arguments must be an Array of Buffers
  function Buffer.allocUnsafe (length) {
    return Buffer.allocUnsafeUnsafe(length)
  }

  var buffer
  function byteLength (string, encoding) {
    var loweredCase = false

    // This behaves neither like String nor
    // Uint8Array in that we set start/end
    // to their upper/lower bounds if the value passed is out of range.
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    // Section 13.3.3.7 Runtime Semantics:
    KeyedBindingInitialization.
    if (start === undefined || start < 0) {
      start = 0
    }
    // Return early if start >
    this.length. Done here to prevent potential uint32
    // coercion fail below.
    if (start > this.length) {
      return ''
    }

    var len = this.length
    for (i = 0; i < len; ++i) {
      if (a[i] !== b[i]) {
        x = a[i]
        y = b[i]
        break
      }
    }

    if (x < y) return -1
    if (y < x) return 1
    return 0
}

Buffer.isEncoding = function isEncoding (encoding) { return true

  // Arguments must be an Array of Buffers
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  }

  var buffer
  function byteLength (string, encoding) {
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    // This behaves neither like String nor
    // Uint8Array in that we set start/end
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    if (start === undefined || start < 0) {
      start = 0
    }
    // Return early if start >
    this.length. Done here to prevent potential uint32
    // coercion fail below.
    if (start > this.length) {
      return ''
    }

    var len = this.length
    for (i = 0; i < len; ++i) {
      if (a[i] !== b[i]) {
        x = a[i]
        y = b[i]
        break
      }
    }

    if (x < y) return -1
    if (y < x) return 1
    return 0
}

Buffer.isEncoding = function isEncoding (encoding) { return true

  // Arguments must be an Array of Buffers
  function Buffer.allocUnsafe (length) {
    return Buffer.allocUnsafeUnsafe(length)
  }

  var buffer
  function byteLength (string, encoding) {
    var loweredCase = false

    // This behaves neither like String nor
    // Uint8Array in that we set start/end
    // to their upper/lower bounds if the value passed is out of range.
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    // Section 13.3.3.7 Runtime Semantics:
    KeyedBindingInitialization.
    if (start === undefined || start < 0) {
      start = 0
    }
    // Return early if start >
    this.length. Done here to prevent potential uint32
    // coercion fail below.
    if (start > this.length) {
      return ''
    }

    var len = this.length
    for (i = 0; i < len; ++i) {
      if (a[i] !== b[i]) {
        x = a[i]
        y = b[i]
        break
      }
    }

    if (x < y) return -1
    if (y < x) return 1
    return 0
}
Open Source Used In SDWan 20.6.1

21225

= (firstByte & 0xF) << 0x12 | (secondByte & 0x3F) << 0xC | (thirdByte & 0x3F) << 0x6 | (fourthByte & 0x3F)

0xC0) === 0x80 && (thirdByte & 0xC0) === 0x80 && (fourthByte & 0xC0) === 0x80) {
            tempCodePoint

secondByte = buf[i + 1]
          thirdByte = buf[i + 2]
          fourthByte = buf[i + 3]
          if ((secondByte & 0xDFFF)) {
              codePoint = tempCodePoint
            }
          }
          break
        case 4:

          } else if (tempCodePoint > 0x7FF && (tempCodePoint < 0xD800 || tempCodePoint > 0xDFFF)) {
            return base64Write(this, string, offset, length)

      case 'utf16le':
        return ucs2Write(this, string, offset, length)

      case 'ucs2':
      case 'ucs-2':
      case 'utf16le':
      case 'utf-16le':
        return ucs2Write(this, string, offset, length)

      case 'base64':
        // Warning: maxLength not taken into account in base64Write
        return base64Write(this, string, offset, length)

      case 'hex':
        return hexWrite(this, string, offset, length)

      case 'latin1':
      case 'binary':
        return latin1Write(this, string, offset, length)

      case 'utf8':
      case 'utf-8':
        return utf8Write(this, string, offset, length)

      case 'ascii':
        return asciiWrite(this, string, offset, length)

      case 'base64':
        // legacy write(string, encoding, offset, length)
        return base64Write(this, string, offset, length)

      case 'us-2':
        return ucs2Write(this, string, offset, length)

      case 'ucs-2':
        return ucs2Write(this, string, offset, length)

      case 'ucs2':
        return ucs2Write(this, string, offset, length)

      case 'utf16':
        return utf16Write(this, string, offset, length)

      case 'utf-16':
        return utf16Write(this, string, offset, length)

      case 'ucs4':
        return ucs4Write(this, string, offset, length)

      case 'ucs-4':
        return ucs4Write(this, string, offset, length)

      case 'ucs4':
        return ucs4Write(this, string, offset, length)

      case 'utf-16le':
        return utf16leWrite(this, string, offset, length)

      case 'utf-16be':
        return utf16beWrite(this, string, offset, length)

      case 'utf-16':
        return utf16Write(this, string, offset, length)

      case 'ucs2':
        return ucs2Write(this, string, offset, length)

      case 'ucs-2':
        return ucs2Write(this, string, offset, length)

      case 'ucs2':
        return ucs2Write(this, string, offset, length)

      case 'utf16':
        return utf16Write(this, string, offset, length)

      case 'utf-16':
        return utf16Write(this, string, offset, length)

      case 'ucs4':
        return ucs4Write(this, string, offset, length)

      case 'ucs-4':
        return ucs4Write(this, string, offset, length)

      case 'ucs4':
        return ucs4Write(this, string, offset, length)
if (tempCodePoint > 0xFFFF && tempCodePoint < 0x110000) {
  codePoint = tempCodePoint
} else if (codePoint > 0xFFFF) {
  res.push(codePoint >>> 10 & 0x3FF | 0xD800)
  codePoint = 0xDC00 | codePoint & 0x3FF
} else if (codePoint == null) {
  res.push(0xFFFD)
} else if (codePoint < 0x10000) {
  codePoint += 0x10000
  res.push(codePoint >>> 10 & 0x3FF | 0xD800)
  codePoint = 0xDC00 | codePoint & 0x3FF
} else if (codePoint < 0x110000) {
  res.push(codePoint)
} else {
  res.push(0xFFFD)
  bytesPerSequence = 1
}

var len = codePoints.length
if (len <= MAX_ARGUMENTS_LENGTH) {
  return String.fromCharCode.apply(String, codePoints)
}

var res = ''
for (var i = 0; i < len; i += MAX_ARGUMENTS_LENGTH) {
  res += String.fromCharCode.apply(String, codePoints.slice(i, i + MAX_ARGUMENTS_LENGTH))
}

return res

function asciiSlice (buf, start, end) {
  var ret = ''
  end = Math.min(buf.length, end)
  for (var i = start; i < end; ++i) {
    ret += String.fromCharCode(buf[i] & 0x7F)
  }
  return ret
}

function latin1Slice (buf, start, end) {
  var ret = ''
  end = Math.min(buf.length, end)
  for (var i = start; i < end; ++i) {
    ret += String.fromCharCode(buf[i])
  }
  return ret
}

function hexSlice (buf, start, end) {
  var len = buf.length
  if (!start || start < 0) start = 0
  if (!end || end <= len) end = len
  var out = ''
  for (var i = start; i < end; ++i) {
    out += toHex(buf[i])
  }
  return out
}

Buffer.prototype.slice = function slice (start, end) {
  var len = this.length
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    start = ~~start
    end = end === undefined ? len : ~~end
    checkOffset(start, end, len)
    return Buffer._wrap(this.subarray(start, end))
  } else {
    var ret = new Buffer(end - start)
    for (var i = 0; i < end - start; ++i) {
      ret[i] = this[0] + start
    }
    return ret
  }
}

/*
 * Need to make sure that buffer isn't trying to write out of bounds.
 */
function checkOffset (offset, ext, length) {
  if ((offset % 1) !== 0 || offset < 0) throw new RangeError('offset is not uint')
  if (offset + ext > length) throw new RangeError('Trying to access beyond buffer length')
}

Buffer.prototype.readUIntLE = function readUIntLE (offset, byteLength, noAssert) {
  if (!noAssert) checkOffset(offset, byteLength, this.length)
  var val = this[offset]
  var mul = 1
  var i = 0
  while (++i < byteLength && (mul *= 0x100)) {
    val += this[offset + i] * mul
  }
  return val
}

Buffer.prototype.readUIntBE = function readUIntBE (offset, byteLength, noAssert) {
  if (!noAssert) checkOffset(offset, byteLength, this.length)
  var val = this[offset + --byteLength]
  var mul = 1
  while (byteLength > 0 && (mul *= 0x100)) {
    val += this[offset + --byteLength] * mul
  }
  return val
}

Buffer.prototype.readUInt8 = function readUInt8 (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 1, this.length)
  return this[offset]
}

Buffer.prototype.readUInt16LE = function readUInt16LE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 2, this.length)
  return this[offset] | (this[offset + 1] << 8)
}

Buffer.prototype.readUInt16BE = function readUInt16BE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 2, this.length)
  return this[offset] | (this[offset + 1] << 8)
}

Buffer.prototype.readUInt32LE = function readUInt32LE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)
  return ((this[offset]) | (this[offset + 1] << 8) | (this[offset + 2] << 16) | (this[offset + 3] << 24))
}

Buffer.prototype.readUInt32BE = function readUInt32BE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)
  return ((this[offset + 3]) | (this[offset + 2] << 8) | (this[offset + 1] << 16) | (this[offset] << 24))
}

function toHex (n) {
  var ret = ''
  while (n > 0) {
    ret = ('0' + (0x1000000 + n) % 0x100000).slice(1) + ret
    n = (0x1000000 + n) >> 16
  }
  return ret
}

function utf16leSlice (buf, start, end) {
  var bytes = buf.slice(start, end)
  var ret = ''
  for (var i = 0; i < bytes.length; i += 2) {
    ret += String.fromCharCode(bytes[i] + bytes[i + 1] * 256)
  }
  return ret
}

function checkBytesLen (buf, byteLength) {
  if (byteLength < 0 || byteLength > buf.length) throw new RangeError('Wrong byteLength')
}

if (typeof String.fromCharCode !== 'function')
  String.fromCharCode = function (a) {
    var buf = new Buffer(1)
    buf[0] = a
    return buf
  }

module.exports = Buffer

for (var i = 0, j = Math.min(buf.length - offset, 4); i < j; ++i) {
    buf[offset + i] = (value >>>
    (littleEndian ? i : 3 - i) * 8) & 0xff
  }
}

Buffer.prototype.writeUInt32LE = function writeUInt32LE (value,
offset, noAssert) {
  var value = +value
  offset = offset || 0
  if (!noAssert) checkInt(this, value, offset, 4, 0xffffffff,
  0)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset + 3] = (value >>> 24)
    this[offset + 2] = (value >>>
    16)
    this[offset + 1] = (value >>> 8)
    this[offset] = (value & 0xff)
  } else {
    objectWriteUInt32(this,
    value, offset, true)
  }
  return offset + 4
}

Buffer.prototype.writeUInt32BE = function writeUInt32BE (value,
offset, noAssert) {
  var value = +value
  offset = offset || 0
  if (!noAssert) checkInt(this, value, offset, 4, 0xffffffff,
  0)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value >>> 24)
    this[offset + 1] = (value >>>
    16)
    this[offset + 2] = (value >>> 8)
    this[offset + 3] = (value & 0xff)
  } else {
    objectWriteUInt32(this,
    value, offset, false)
  }
  return offset + 4
}

Buffer.prototype.writeIEEE754 = function writeIEEE754 (value,
offset, isLittle, noAssert) {
  var buffer = this
  if (!noAssert) {
    checkIEEE754(value, offset, isLittle)
  }
  ieee754.write(buffer, value, offset, isLittle)
}

function checkIEEE754 (buf, value, offset, ext, max, min) {
  if (offset + ext > buf.length) throw new RangeError('Index out of range')
  if (value < min || value > max) throw new RangeError('Value out of bounds')
  return value
}

Buffer.prototype.writeFloatLE = function writeFloatLE (value,
offset, noAssert) {
  return writeIEEE754(this, value, offset, true, noAssert)
}

Buffer.prototype.writeFloatBE = function writeFloatBE (value,
offset, noAssert) {
  return writeIEEE754(this, value, offset, false, noAssert)
}

function objectWriteUInt32 (buf, value, offset, isLittle) {
  var isSign = isLittle
  var i = 0
  var r = 0
  while (i < 8) {
    if (value & 128) value -= 256
    if (isSign) value = -value
    r += (value & 127) << 7 * i
    i++
  }
  buf[offset + i] = r
}

Buffer.prototype.writeUInt64LE = function writeUInt64LE (value,
offset, noAssert) {
  var v = +value
  offset = offset || 0
  if (!noAssert) checkInt(this, value, offset, 8, -0x1000000000000000,
  0x1000000000000000)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset + 7] = (value >>>
    56)
    this[offset + 6] = (value >>> 48)
    this[offset + 5] = (value >>> 40)
    this[offset + 4] = (value >>> 32)
    this[offset + 3] = (value >>>
    24)
    this[offset + 2] = (value >>> 16)
    this[offset + 1] = (value >>> 8)
    this[offset] = (value & 0xff)
  } else {
    objectWriteUInt64(this,
    value, offset, true)
  }
  return offset + 8
}

Buffer.prototype.writeUInt64BE = function writeUInt64BE (value,
offset, noAssert) {
  var v = +value
  offset = offset || 0
  if (!noAssert) checkInt(this, value, offset, 8, -0x1000000000000000,
  0x1000000000000000)
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value >>>
    56)
    this[offset + 1] = (value >>>
    48)
    this[offset + 2] = (value >>>
    40)
    this[offset + 3] = (value >>>
    32)
    this[offset + 4] = (value >>>
    24)
    this[offset + 5] = (value >>>
    16)
    this[offset + 6] = (value >>> 8)
    this[offset + 7] = (value & 0xff)
  } else {
    objectWriteUInt64(this,
    value, offset, false)
  }
  return offset + 8
}

function objectWriteFloat (buf, value, offset, isLittle, noAssert) {
  var i = 0
  var r = 0
  var s = value < 0
  for (b = value > 0 ? 1 : -1; i < 23; i++) {
    if (s) value = -value
    r += (value & 127) << 7 * i
    s = value = Math.floor(value * 2)
  }
  return objectWriteUint32(buf, value * b, offset + i, isLittle)
}

Buffer.prototype.writeFloatLE = function writeFloatLE (value,
offset, noAssert) {
  return objectWriteFloat(this, value, offset, true, noAssert)
}

Buffer.prototype.writeFloatBE = function writeFloatBE (value,
offset, noAssert) {
  return objectWriteFloat(this, value, offset, false, noAssert)
}

function objectWriteDouble (buf, value, offset, isLittle, noAssert) {
  var i = 0
  var r = 0
  var s = value < 0
  for (b = value > 0 ? 1 : -1; i < 52; i++) {
    if (s) value = -value
    r += (value & 127) << 7 * i
    s = value = Math.floor(value * 2)
  }
  return objectWriteUint64(buf, value * b, offset + i, isLittle)
}

Buffer.prototype.writeDoubleLE = function writeDoubleLE (value,
offset, noAssert) {
  return objectWriteDouble(this, value, offset, true, noAssert)
}

Buffer.prototype.writeDoubleBE = function writeDoubleBE (value,
offset, noAssert) {
  return objectWriteDouble(this, value, offset, false, noAssert)
}

function inheritFromGlobal (target, source) {
  for (var key in source) {
    if (key === 'length' || key === 'prototype') continue
    if (target[key] !== source[key])
      target[key] = source[key]
  }
}

Buffer.prototype.toString = function toString () {
  var length = this.length
  if (length === 0) return ''
  return Buffer.prototype.toString.call(this)
};

Buffer.prototype.toArrayBuffer = function toArrayBuffer () {
  return this
}

Buffer.prototype.equals = function equals (b, offset, len) {
  return Buffer.prototype.equals.call(this, b, offset, len)
}

Buffer.prototype.compare = function compare (b, offset, len) {
  return Buffer.prototype.compare.call(this, b, offset, len)
}

Buffer.prototype.isEqual = function isEqual (b, offset, len) {
  return Buffer.prototype.isEqual.call(this, b, offset, len)
}

// node's buf.js

function writeDoubleLE (value, offset, noAssert) { // return writeDouble(this, value, offset, true, noAssert) || this.writeBuffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAssert) || this.buffer.prototype.writeDoubleLE (value, offset, noAss
different rules for clearTimeout vs setTimeout

```javascript
return cachedClearTimeout.call(this, marker);
```
runtime/helpers/toConsumableArray.js

// module id = 69
// module chunks = 0

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 * All rights reserved.
 *
 * This source code is licensed under the MIT license found in the LICENSE file in
 * the root directory of this source tree.
 *
 * @flow

 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var invariant = require('fbjs/lib/invariant');

/**
 * Static poolers. Several custom versions for each potential number of arguments. A completely
generic pooler is easy to implement, but would require accessing the arguments object. In each of these,
'this' refers to the class itself, not an instance. If any others are needed, simply add them here, or in their
own files.:

 * oneArgumentPooler = function (copyFieldsFrom) {
 *   var Klass = this;
 *   if (Klass.instancePool.length) {
 *     var instance = Klass.instancePool.pop();
 *     Klass.call(instance, copyFieldsFrom);
 *     return instance;
 *   } else {
 *     return new Klass(copyFieldsFrom);
 *   }
 * }

 * twoArgumentPooler = function (a1, a2) {
 *   var Klass = this;
 *   if (Klass.instancePool.length) {
 *     var instance = Klass.instancePool.pop();
 *     Klass.call(instance, a1, a2);
 *     return instance;
 *   } else {
 *     return new Klass(a1, a2);
 *   }
 * }

 * threeArgumentPooler = function (a1, a2, a3) {
 *   var Klass = this;
 *   if (Klass.instancePool.length) {
 *     var instance = Klass.instancePool.pop();
 *     Klass.call(instance, a1, a2, a3);
 *     return instance;
 *   } else {
 *     return new Klass(a1, a2, a3);
 *   }
 * }

 * fourArgumentPooler = function (a1, a2, a3, a4) {
 *   var Klass = this;
 *   if (Klass.instancePool.length) {
 *     var instance = Klass.instancePool.pop();
 *     Klass.call(instance, a1, a2, a3, a4);
 *     return instance;
 *   } else {
 *     return new Klass(a1, a2, a3, a4);
 *   }
 * }

 * defaultPooler = oneArgumentPooler;

 * DEFAULT_POOLER = oneArgumentPooler;

 * module.exports = PooledClass;


// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/web.dom.iterable.js

module.exports = {};

// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_iterators.js

// to indexed object, toObject with fallback for non-array-like ES3

var classCallCheck, createPropertyDescriptor, defineProperty, getPrototypeOf, isExtensible, objectCreate, ownKeys, preventExtensions, Reflect, setPrototypeOf, speciesConstructor, symbol, Symbol, suspenseFunction;
strings

var IObject = require('./_iobject');
var defined = require('./_defined');
module.exports = function (it) {
    return IObject(defined(it));
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_to-iobject.js
// module id = 73
// module chunks = 0

var defined = require('./_defined');
module.exports = function (it) {
  return Object(defined(it));
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_to-object.js
// module id = 74
// module chunks = 0

'use strict';
var $at = require('./_string-at')(true);

// 21.1.3.27 String.prototype[@@iterator]()
require('./_iter-define')(String, 'String', function (iterated) {
  this._t = String(iterated); // target
  this._i = 0;                // next index

  function (index) {
    var O = this._t;
    var index = this._i;
    var point = undefined;
    if (index >= O.length) return point;

    var value = undefined;
    O = O[index];
    if (O === undefined) return point;

    var done = false;
    return {
      value: O
    };
  };
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/es6.string.iterator.js
// module id = 75
// module chunks = 0

var global = require('./_global');
var hide = require('./_hide');
var has = require('./_has');
var SRC = require('./_uid')('src');

var TO_STRING = 'toString';
var $toString = Function[TO_STRING];
var TPL = ('' + $toString).split(TO_STRING);

require ['./_core'].inspectSource = function (it) {
  return $toString.call(it);
};

(module.exports = function (O, key, val, safe) {
  var isFunction = typeof val == 'function';
  if (isFunction) has(val, 'name') || hide(val, 'name', key);
  if (O[key] === val) return;
  if (isFunction)
    has(val, SRC) || hide(val, SRC, O[key] ? '' + O[key] : TPL.join(String(key)));
  if (O === global) {
    O[key] = val;
  } else if (!safe) {
    delete O[key];
    hide(O, key, val);
  } else if (O[key]) {
    O[key] = val;
  } else {
    hide(O, key, val);
  }
// add fake Function#toString for correct work wrapped methods / constructors with
// methods like LoDash isNative
})(Function.prototype, TO_STRING, function toString() {
  return typeof this == 'function' && this[SRC] || $toString.call(this);
});


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_redefine.js
// module id = 76
// module chunks = 0

module.exports = function (it) {
  return typeof it === 'object' ? it !== null : typeof it === 'function';
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_is-object.js
// module id = 77
// module chunks = 0

/**
  * Copyright (c) 2013-present, Facebook, Inc.
  *
  * This source code is licensed under the MIT license found in the
  * LICENSE file in the root directory of this source tree.
  *
  */

'use strict';

var _assign = require('object-assign');

var ReactBaseClasses = require('./ReactBaseClasses');
var ReactChildren = require('./ReactChildren');
var ReactDOMFactories = require('./ReactDOMFactories');
var ReactElement = require('./ReactElement');
var ReactPropTypes = require('./ReactPropTypes');
var ReactVersion = require('./ReactVersion');

var createReactClass = require('./createClass');
var onlyChild = require('./onlyChild');

var createElement = ReactElement.createElement;
var createFactory = ReactElement.createFactory;
var cloneElement = ReactElement.cloneElement;

if (process.env.NODE_ENV !== 'production') {
  var lowPriorityWarning = require('./lowPriorityWarning');
  var canDefineProperty = require('./canDefineProperty');
  var ReactElementValidator = require('./ReactElementValidator');
  var didWarnPropTypesDeprecated = false;
  createElement = ReactElementValidator.createElement;
  createFactory = ReactElementValidator.createFactory;
  cloneElement = ReactElementValidator.cloneElement;
}

var __spread = _assign;
var createMixin = function (mixin) {
  return mixin;
};

if (process.env.NODE_ENV !== 'production') {
  var warnedForSpread = false;
  var warnedForCreateMixin = false;
  __spread = function () {

    lowPriorityWarning(warnedForCreateMixin, 'React.createMixin is deprecated and should not be used. Use ' + 'Object.assign directly or another helper function with similar ‘+’ semantics. You may be seeing this warning due to your compiler.
    ' + 'See https://fb.me/react-spread-deprecation for more details.);
    warnedForCreateMixin = true;
    return
  }

  return __spread;
};

var React = {

  Children: {
    map: ReactChildren.map,
    forEach: ReactChildren.forEach,
    count: ReactChildren.count,
    toArray: ReactChildren.toArray,
  },

  Component:
Open Source Used In SDWan

**20.6.1**

![Image](https://fb.me/react-special-props), displayName) : void 0;

```javascript

warnAboutAccessingRef.isReactWarning = true;

Object.defineProperty(props, 'ref', {
  get: warnAboutAccessingRef,
  configurable: true
});

key

@param {string|object} ref

A *temporary* helper to detect places where 'this' is not
different from the 'owner' when React.createElement is called, so that we

* record the component responsible for creating this element.

owner

if (process.env.NODE_ENV !== 'production') {

The validation flag is currently mutative. We put it on

an external backing store so that we can

free the whole object.

This can be replaced with a WeakMap once they are implemented in

commonly used development environments.


To make comparing ReactElements easier for testing purposes, we make

the validation flag non-enumerable (where possible, which should

include every environment we run tests in), so the test framework

ignores it.

if (canDefineProperty) {

Object.defineProperty(element._store, 'validated', {
        configurable: false,
        enumerable: false,
        writable: true,
        value: false
      });

Object.defineProperty(element, '_self', {
        configurable: false,
        enumerable: false,
        writable: false,
        value: self
      });

// Two elements created in two different places should be considered
// equal for testing purposes and therefore we hide it from enumeration.

Object.defineProperty(element, '_source', {
        configurable: false,
        enumerable: false,
        writable: false,
        value: source
      });
}

if (Object.freeze) {

Object.freeze(element.props);
Object.freeze(element);
}

return ReactElement(type, key, ref, self, source, owner, props);

React.createElement = function (type, config, children) {

  var propName;

  var props = {};

  var key = null;

  if (config != null) {

    if (hasValidRef(config)) {

      ref = config.ref;
    }

    if (hasValidKey(config)) {

      key = '' + config.key;
    }

    self = config.__self === undefined ? null : config.__self;

    source = config.__source === undefined ? null : config.__source;

    for (propName in config) {

      if (hasOwnProperty.call(config, propName) && !RESERVED_PROPS.hasOwnProperty(propName)) {

        props[propName] = config[propName];
      }
    }

    var childrenLength = arguments.length - 2;

    if (childrenLength === 1) {

      props.children = children;
    } else if (childrenLength > 1) {

      var childArray = Array(childrenLength);

      for (var i = 0; i < childrenLength; i++) {

        childArray[i] = arguments[i + 2];
      }

      if (process.env.NODE_ENV !== 'production') {

        if (Object.freeze) {

          Object.freeze(childArray);
        }
      }
    }

    if (hasValidRef(config)) {

      ref = config.ref;
    }

    if (hasValidKey(config)) {

      key ="" + config.key;
    }

    if (typeof props.$typeof === 'undefined') {

      props.$typeof = 'function';
    }

    if (props.$typeof !== 'ReactElement') {

      if (key || ref) {

        defineRefPropWarningGetter(props, displayName);
      }

      ReactElement(type, key, ref, self, ReactCurrentOwner.current, props);
    }

    return ReactElement(type, key, ref, self, source, owner, props);
  }
```
produces ReactElements of a given type.

```javascript
* See https://facebook.github.io/react/docs/top-level-api.html#react.createfactory

ReactElement.createFactory = function (type) {
  var factory = ReactElement.createElement.bind(null, type);

  ReactElement.createFactory = function (element, config, children) {
    var propName;

    var props = _assign({}, element.props);

    key = element.key;
    owner = ReactCurrentOwner.current;

    if (hasValidKey(config)) {
      key = '' + config.key;
    }

    defaultProps = element.type && element.type.defaultProps;

    for (propName in config) {
      if (hasOwnProperty.call(config, propName) && !RESERVED_PROPS.hasOwnProperty(propName)) {
        if (config[propName] === undefined && defaultProps !== undefined) {
          props[propName] = defaultProps[propName];
        } else {
          props[propName] = config[propName];
        }
      }
    }

    var childrenLength = arguments.length - 2;

    if (childrenLength === 1) {
      props.children = children;
    } else if (childrenLength > 1) {
      var childArray = Array(childrenLength);
      for (var i = 0; i < childrenLength; i++) {
        childArray[i] = arguments[i + 2];
      }
      props.children = childArray;
    }

    return ReactElement(element.type, key, ref, self, source, owner, props);
  }

  return newFunction* Clone and return a new ReactElement using element as the starting point.

  ReactElement.cloneAndReplaceKey = function (oldElement, newKey) {
    var newElement = ReactElement(oldElement.type, newKey, oldElement.ref, oldElement._self, oldElement._source, oldElement._owner, oldElement.props);
    return newElement;
  }

  ReactElement.cloneElement = function (element, config, children) {
    var propName;

    var props = _assign({}, element.props);

    key = element.key;
    ref = element._self;
    source = element._source;
    owner = element._owner;

    if (config != null) {
      if (hasValidRef(config)) {
        ref = config.ref;
        owner = ReactCurrentOwner.current;
      }
      if (hasValidKey(config)) {
        key = '' + config.key;
      }

      defaultProps = element.type && element.type.defaultProps;

      for (propName in config) {
        if (hasOwnProperty.call(config, propName) && !RESERVED_PROPS.hasOwnProperty(propName)) {
          if (config[propName] === undefined && defaultProps !== undefined) {
            props[propName] = defaultProps[propName];
          } else {
            props[propName] = config[propName];
          }
        }
      }

      childrenLength = arguments.length - 2;

      if (childrenLength === 1) {
        props.children = children;
      } else if (childrenLength > 1) {
        var childArray = Array(childrenLength);
        for (var i = 0; i < childrenLength; i++) {
          childArray[i] = arguments[i + 2];
        }
        props.children = childArray;
      }

      return ReactElement(element.type, key, ref, self, source, owner, props);
    }

    return newFunction* *Verifies the object is a ReactElement.

    if (typeof object === 'object') {
      var isReactElement = object.isReactElement;
      if (isReactElement) {
        return true;
      }
    }

    return false;
  }

  return newFunction* *Verifies the object is a ReactElement.

  if (config[propName] === undefined && defaultProps !== undefined) {
    props[propName] = defaultProps[propName];
  } else {
    props[propName] = config[propName];
  }

  if (childrenLength === 1) {
    props.children = children;
  } else if (childrenLength > 1) {
    var childArray = Array(childrenLength);
    for (var i = 0; i < childrenLength; i++) {
      childArray[i] = arguments[i + 2];
    }
    props.children = childArray;
  }

  return ReactElement(element.type, key, ref, self, source, owner, props);
}
```

```javascript
module.exports = ReactElement;
```
common   = require('./common');

var YAMLException = require('./exception');

var Type = require('./type');

function compileList(schema, name, result) {
  var exclude = [];

  schema.include.forEach(function (includedSchema) {
    result = compileList(includedSchema, name, result);
  });

  schema[name].forEach(function (currentType) {
    result.forEach(function (previousType, previousIndex)
    { if (previousType.tag === currentType.tag &&
      previousType.kind === currentType.kind)
      exclude.push(previousIndex);
    });

    result.push(currentType);
  });

  return result.filter(function (type, index) {
    return exclude.indexOf(index) === -1;
  });
}


function compileMap(/* lists... */) {
  var result = {
    scalar: {},
    sequence: {},
    mapping: {},
    fallback: {}
  }, index, length;

  function collectType(type) {
    result[type.kind][type.tag] = result['fallback'][type.tag] = type;
  }

  for (index = 0, length = arguments.length; index < length; index += 1) {
    arguments[index].forEach(collectType);
  }

  return result;
}


function Schema(definition) {
  this.include = definition.include || [];
  this.implicit = definition.implicit || [];
  this.explicit = definition.explicit || [];

  this.implicit.forEach(function (type) {
    if (type.loadKind && type.loadKind !== 'scalar') {
      throw new YAMLException('There is a non-scalar type in the implicit list of a schema. Implicit resolving of such types is not supported.');
    }
  });

  this.compiledImplicit = compileList(this, 'implicit', []);
  this.compiledExplicit = compileList(this, 'explicit', []);
  this.compiledTypeMap = compileMap(this.compiledImplicit, this.compiledExplicit);
}


Schema.DEFAULT = null;


Schema.create = function createSchema() {
  var schemas, types;

  switch (arguments.length) {
    case 1:
      schemas = Schema.DEFAULT;
      types = arguments[0];
      break;

    case 2:
      schemas = arguments[0];
      types = arguments[1];
      break;

    default:
      throw new YAMLException('Wrong number of arguments for Schema.create function');
  }

  schemas = common.toArray(schemas);
  types = common.toArray(types);

  if (!schemas.every(function (schema) { return schema instanceof Schema; })) {
    throw new YAMLException('Specified list of super schemas (or a single Schema object) contains a non-Schema object.');
  }

  if (!types.every(function (type) { return type instanceof Type; })) {
    throw new YAMLException('Specified list of YAML types (or a single Type object) contains a non-Type object.');
  }

  return new Schema({
    include: schemas,
    explicit: types
  });
};


module.exports = Schema;


Open Source Used In SDWan 20.6.1  21240
domPropertyConfig.DOMAttributeNamespaces || {};
var DOMAttributeNames = domPropertyConfig.DOMAttributeNames || {};
var DOMPropertyNames = domPropertyConfig.DOMPropertyNames || {};
var DOMMutationMethods = domPropertyConfig.DOMMutationMethods || {};

if (domPropertyConfig.isCustomAttribute) {
  DOMProperty._isCustomAttributeFunctions.push(domPropertyConfig.isCustomAttribute);
}

for (var propName in Properties) {
  !!DOMProperty.properties.hasOwnProperty(propName) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'injectDOMPropertyConfig(...): You`re trying to inject DOM property `%s` which has already been injected. You may be accidentally injecting the same DOM property config twice, or you may be injecting two configs that have conflicting property names.', propName) : _prodInvariant('48', propName) : void 0;

  var lowerCased = propName.toLowerCase();
  var propConfig = Properties[propName];

  var propertyInfo = {
    attributeName: lowerCased,
    attributeNamespace: null,
    propertyName: propName,
    mutationMethod: null,
    mustUseProperty: checkMask(propConfig, Injection.MUST_USE_PROPERTY),
    hasBooleanValue: checkMask(propConfig, Injection.HAS_BOOLEAN_VALUE),
    hasNumericValue: checkMask(propConfig, Injection.HAS_NUMERIC_VALUE),
    hasOverloadedBooleanValue: checkMask(propConfig, Injection.HAS_OVERLOADED_BOOLEAN_VALUE)
  };
  !(propertyInfo.hasBooleanValue + propertyInfo.hasNumericValue + propertyInfo.hasOverloadedBooleanValue <= 1) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'DOMProperty: Value can be one of boolean, overloaded boolean, or numeric value, but not a combination: `%s`, propName) : _prodInvariant('50', propName) : void 0;

  if (process.env.NODE_ENV !== 'production') {
    DOMProperty.getPossibleStandardName[lowerCased] = propName;
  }

  if (DOMAttributeNames.hasOwnProperty(propName)) {
    var attributeName = DOMAttributeNames[propName];
    propertyInfo.attributeName = attributeName;
    if (process.env.NODE_ENV !== 'production') {
      DOMProperty.getPossibleStandardName[attributeName] = propName;
    }
  }

  if (DOMAttributeNamespaces.hasOwnProperty(propName)) {
    propertyInfo.attributeNamespace = DOMAttributeNamespaces[propName];
  }

  if (DOMPropertyNames.hasOwnProperty(propName)) {
    propertyInfo.propertyName = DOMPropertyNames[propName];
  }

  if (DOMMutationMethods.hasOwnProperty(propName)) {
    propertyInfo.mutationMethod = DOMMutationMethods[propName];
  }

  DOMProperty.properties[propName] = propertyInfo;
}

/* eslint-disable max-len */
var ATTRIBUTE_NAME_START_CHAR = ':A-Z_a-z\\u00C0-\\u00D6\\u00D8-\\u00F6\\u00F8-
\\u02FF\\u0370-\\u037D\\u037F-\\u1FFF\\u200C-\\u200D\\u2070-\\u218F\\u2C00-\\u2FEF\\u3001-
\\uD7FF\\uF900-\\uFDCF\\uFDF0-\\uFFFD';
/* eslint-enable max-len */

/**
 * DOMProperty exports lookup objects that can be used like functions:
 * *
 *   > DOMProperty.isValid['id']
 *   true
 *   > DOMProperty.isValid['foobar']
 *   undefined
 *   Although this may be confusing, it performs better in general. see http://jsperf.com/key-exists
 *   @see http://jsperf.com/key-missing
 */
var DOMProperty = {
  ID_ATTRIBUTE_NAME: 'data-reactid',
  ROOT_ATTRIBUTE_NAME: 'data-reactroot',

  ATTRIBUTE_NAME_START_CHAR: ATTRIBUTE_NAME_START_CHAR,
  ATTRIBUTE_NAME_CHAR: ATTRIBUTE_NAME_START_CHAR + '0-9\\u00B7\\u00B9-\\u00D6\\u00D8-\\u02FF-
\\u0370-\\u037D\\u037F-\\u1FFF\\u200C-\\u200D\\u2070-\\u218F\\u2C00-\\u2FEF\\u3001-
\\uD7FF\\uF900-\\uFDCF\\uFDF0-\\uFFFD',

  ID_ATTRIBUTE_NAME: 'data-reactid',
  ROOT_ATTRIBUTE_NAME: 'data-reactroot',

  ATTRIBUTE_NAME_START_CHAR: ATTRIBUTE_NAME_START_CHAR,
  ATTRIBUTE_NAME_CHAR: ATTRIBUTE_NAME_START_CHAR + '0-9\\u00B7\\u00B9-\\u00D6\\u00D8-\\u02FF-
\\u0370-\\u037D\\u037F-\\u1FFF\\u200C-\\u200D\\u2070-\\u218F\\u2C00-\\u2FEF\\u3001-
\\uD7FF\\uF900-\\uFDCF\\uFDF0-\\uFFFD',

  // Map from property `v`standard name` to an object with info about how to set/get the property in the DOM. Each object contains:
  // * attributeName: Used when rendering markup or with `*Attribute()`.
  // * attributeNameNamespace: Used on DOM node instances. (This includes properties that mutate due to external factors).
  // * mutationMethod: If non-null, used instead of the property or `setAttribute()` after initial render.
  // * useNumber: Whether the property must be accessed and mutated as an object property.
  // * hasBooleanValue: Whether the property should be removed when set to a falsey value.
  // * hasNumericValue: Whether the property must be numeric or parse as a numeric and should be removed when set to a falsey value.
  // * hasPositiveNumericValue: Whether the property must be positive numeric or parse as a positive.
hasOverloadedBooleanValue; * Whether the property can be used as a flag as well as with a value.
* Removed when strictly equal to false; present without a value when
* strictly equal to true; present with a value
otherwise.
* Mapping from lowercase property names to the property cased version,
used to warn in the case of missing properties. Available only in __DEV__.
* autofocus is predefined, because adding it to the property whitelist
* causes unintended side effects.
* @type {Object}
* getPossibleStandardName: process.env.NODE_ENV !== 'production'? { autofocus: 'autoFocus' }
: null,
* * @method
* isCustomAttribute: function (attributeName) {
  for (var i = 0; i < DOMProperty._isCustomAttributeFunctions.length; i++) {
    var isCustomAttributeFn = DOMProperty._isCustomAttributeFunctions[i];
    if (isCustomAttributeFn(attributeName)) {
      return true;
    }
  }
  return false;
},
injection: DOMPropertyInjection
};

module.exports = DOMProperty;

//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/DOMProperty.js
// module id = 90
// module chunks = 0
*/

'use strict';

var ReactRef = require('./ReactRef');
var ReactInstrumentation = require('./ReactInstrumentation');

var warning = require('fbjs/lib/warning');

/**
 * Helper to call ReactRef.attachRefs with this composite component, split out
 * to avoid allocations in the transaction mount-ready queue.
 */
function attachRefs() {
  ReactRef.attachRefs(this, this._currentElement);
}

var ReactReconciler = {
  /**
   * Initializes the component, renders markup, and registers event listeners.
   *
   * @param {ReactComponent} internalInstance
   * @param
   */
  mountComponent: function (internalInstance, transaction, hostParent, hostContainerInfo, context, parentDebugID) {
    if (process.env.NODE_ENV !== 'production') {
      if (internalInstance._debugID !== 0) {
        ReactInstrumentation.debugTool.onBeforeMountComponent(internalInstance._debugID, internalInstance._currentElement, parentDebugID);
      }
    }
    var markup = internalInstance.mountComponent(transaction, hostParent, hostContainerInfo, context, parentDebugID);
    if (internalInstance._currentElement && internalInstance._currentElement.ref != null) {
      transaction.getReactMountReady().enqueue(attachRefs, internalInstance);
    }
    if (process.env.NODE_ENV !== 'production') {
      if (internalInstance._debugID !== 0) {
        ReactInstrumentation.debugTool.onMountComponent(internalInstance._debugID);
      }
    }
    return markup;
  },

  /**
   * Returns a value that can be passed to
   */
  getHostNode: function (internalInstance) {
    return internalInstance.getHostNode();
  },

  /**
   * Releases any resources allocated by `mountComponent`.
   *
   * @final
   * @internal
   */
  unmountComponent: function (internalInstance, safely) {
    if (process.env.NODE_ENV !== 'production') {
      if (internalInstance._debugID !== 0) {
        ReactInstrumentation.debugTool.onBeforeUnmountComponent(internalInstance._debugID);
      }
    }
    ReactRef.detachRefs(internalInstance, internalInstance._currentElement);
    internalInstance.unmountComponent(safely);
    if (process.env.NODE_ENV !== 'production') {
      if (internalInstance._debugID !== 0) {
        ReactInstrumentation.debugTool.onUnmountComponent(internalInstance._debugID);
      }
    }
    return;
  },

  /**
   * Update a component using a new element.
   *
   * @param {ReactComponent} internalInstance
   * @param
   */
  receiveComponent: function (internalInstance, nextElement, transaction, context) {
    var prevElement = internalInstance._currentElement;
    if (nextElement === prevElement && context === internalInstance._context) {
      Rendered markup to be inserted into the DOM.
    } else {
      // Since elements are immutable after the owner is rendered,
      // we can do a
cheaper identity compare here to determine if this is a
  // superfluous reconcile. It's possible for state to be
mutable but such
  // change should trigger an update of the owner which would recreate
  // the element. We
explicitly check for the existence of an owner since
  // it's possible for an element created outside a composite to
be
  // deeply mutated and reused.
  // TODO: Bailing out early is just a perf optimization right?
  // TODO: Removing the return statement should affect correctness?
  // return;
    }

    if (process.env.NODE_ENV !== 'production') {
      if (internalInstance._debugID !== 0) {
        ReactInstrumentation.debugTool.onBeforeUpdateComponent(internalInstance._debugID, nextElement);
      }
    }

    var refsChanged = ReactRef.shouldUpdateRefs(prevElement, nextElement);
    if (refsChanged) {
      ReactRef.detachRefs(internalInstance, prevElement);
    }

    internalInstance.receiveComponent(nextElement, transaction, context);
    if (refsChanged && internalInstance._currentElement &&
      internalInstance._currentElement.ref != null) {
      transaction.getReactMountReady().enqueue(attachRefs, internalInstance);
    }

    if (process.env.NODE_ENV !== 'production') {
      if (internalInstance._debugID
        !== 0) {
        ReactInstrumentation.debugTool.onUpdateComponent(internalInstance._debugID);
      }
    }
  },

  /**
   * Flush any dirty changes in a component.
   *
   * @param {ReactComponent} internalInstance
   * @param {ReactReconcileTransaction} transaction
   * @internal
   */
  performUpdateIfNecessary: function (internalInstance, transaction, updateBatchNumber) {
    if (internalInstance._updateBatchNumber !== updateBatchNumber) {
      // The component's enqueued batch number should always be the current
      // batch
      // or the following one. process.env.NODE_ENV != 'production' ?
      warning(internalInstance._updateBatchNumber == null || internalInstance._updateBatchNumber ===
        updateBatchNumber + 1, 'performUpdateIfNecessary: Unexpected batch number (current %s, ' + 'pending %s)',
        updateBatchNumber, internalInstance._updateBatchNumber) : void 0;
      return;
    }
    if (process.env.NODE_ENV !== 'production') {
      if (internalInstance._debugID !== 0) {
        ReactInstrumentation.debugTool.onBeforeUpdateComponent(internalInstance._debugID, internalInstance._currentElement);
      }
    }
    internalInstance.performUpdateIfNecessary(transaction);
    if (process.env.NODE_ENV !== 'production') {
      if (internalInstance._debugID !== 0) {
        ReactInstrumentation.debugTool.onUpdateComponent(internalInstance._debugID);
      }
    }
  });

module.exports = ReactReconciler;


//////////////////
// WEBPACK FOOTER
// module id = 91
// module chunks = 0
conditions:\n// The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

// NOTE: These type checking functions intentionally don't use 'instanceof' because it is fragile and can be easily faked with 'Object.create()'.

function isArray(arg) {
  if (Array.isArray) {
    return Array.isArray(arg);
  }
  return objectToString(arg) === '[object Array]';
}
exports.isArray = isArray;

function isBoolean(arg) {
  return typeof arg === 'boolean';
}
exports.isBoolean = isBoolean;

function isNull(arg) {
  return arg === null;
}
exports.isNull = isNull;

function isNullOrUndefined(arg) {
  return arg == null;
}
exports.isNullOrUndefined = isNullOrUndefined;

function isNumber(arg) {
  return typeof arg === 'number';
}
exports.isNumber = isNumber;

function isString(arg) {
  return typeof arg === 'string';
}
exports.isString = isString;

function isSymbol(arg) {
  return typeof arg === 'symbol';
}
exports.isSymbol = isSymbol;

function isRegExp(re) {
  return objectToString(re) === '[object RegExp]';
}
exports.isRegExp = isRegExp;

function isObject(arg) {
  return typeof arg === 'object' && arg !== null;
}
exports.isObject = isObject;

function isDate(d) {
  return objectToString(d) === '[object Date]';
}
exports.isDate = isDate;

function isError(e) {
  return (objectToString(e) === '[object Error]' || e instanceof Error);
}
exports.isError = isError;

function isFunction(arg) {
  return typeof arg === 'function';
}
exports.isFunction = isFunction;

function isPrimitive(arg) {
  return arg === null ||
         typeof arg === 'boolean' ||
         typeof arg === 'number' ||
         typeof arg === 'string' ||
         typeof arg === 'symbol' ||  // ES6 symbol
         typeof arg === 'undefined';
}
exports.isPrimitive = isPrimitive;

exports.isBuffer = Buffer.isBuffer;

function objectToString(o) {
  return Object.prototype.toString.call(o);
}

// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/exception.js
// module id = 109
// module chunks = 0

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
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 */

'use strict';

var EventPluginHub = require('./EventPluginHub');
var EventPluginUtils =
require('./EventPluginUtils');

var accumulateInto = require('./accumulateInto');

var forEachAccumulated = require('./forEachAccumulated');

var warning = require('fbjs/lib/warning');

var getListener = EventPluginHub.getListener;

/**
 * Some event types have a notion of different registration names for different
 * `phases` of propagation. This finds listeners by a given phase.
 * @param {number} inst
 * @param {string} event
 * @param {object} phase
 * @return {object} listener
 * @function listenerAtPhase
 */

function listenerAtPhase(inst, event, propagationPhase) {
  var registrationName = event.dispatchConfig.phasedRegistrationNames[propagationPhase];
  return getListener(inst, registrationName);
}

/**
 * Tags a `SyntheticEvent` with dispatched listeners. Creating this function
 * here allows us to not to bind or create functions for each event. Mutating
 * the event's members allows us not to have to create a wrapping
 * `dispatch` object that pairs the event with the listener.
 * @param {object} event
 * @function accumulateDirectionalDispatches
 */

function accumulateDirectionalDispatches(inst, phase, event) {
  if (process.env.NODE_ENV !== 'production') {
    process.env.NODE_ENV !== 'production' ? warning(inst, 'Dispatching inst must not be null') : void 0;
  }
  var listener = listenerAtPhase(inst, event, phase);
  if (listener) {
    event._dispatchListeners = accumulateInto(event._dispatchListeners, listener);
    event._dispatchInstances = accumulateInto(event._dispatchInstances, inst);
  }
}

/**
 * Collects dispatches (must be entirely collected before dispatching).
 * Lazily allocate the array to conserve memory. We must loop through
 * each event and perform the traversal for each one. We cannot perform a
 * single traversal for the entire collection of events because each event may
 * have a different target.
 * @function accumulateTwoPhaseDispatches
 */

function accumulateTwoPhaseDispatches(events) {
  forEachAccumulated(events, accumulateTwoPhaseDispatchesSingle);
}

function accumulateTwoPhaseDispatchesSingleSkipTarget(event) {
  if (event && event.dispatchConfig.phasedRegistrationNames) {
    var targetInst = event._targetInst;
    var parentInst = targetInst ? EventPluginUtils.getParentInstance(targetInst) : null;
    EventPluginUtils.traverseTwoPhase(parentInst, accumulateDirectionalDispatches, event);
  }
}

function accumulateDispatches(inst, ignoredDirection, event) {
  if (event && event.dispatchConfig.registrationName) {
    var registrationName = event.dispatchConfig.registrationName;
    var listener = getListener(inst, registrationName);
    if (listener) {
      event._dispatchListeners = accumulateInto(event._dispatchListeners, listener);
      event._dispatchInstances = accumulateInto(event._dispatchInstances, inst);
    }
  }
}

/**
 * Accumulates dispatches on an `SyntheticEvent`, but only for the
 * `dispatchMarker`.
 * @param {SyntheticEvent} event
 * @function accumulateDirectDispatches
 */

function accumulateDirectDispatchesSingle(event) {
  if (event && event.dispatchConfig.registrationName) {
    accumulateDispatches(event._targetInst, null, event);
  }
}

function accumulateEnterLeaveDispatches(leave, enter, from, to) {
  EventPluginUtils.traverseEnterLeave(from, to, accumulateDirectDispatches, leave, enter);
  EventPluginUtils.traverseEnterLeave(from, to, accumulateTwoPhaseDispatchesSingle, to);
}

function accumulateDirect Dispatches(events) {
  forEachAccumulated(events, accumulateDirectDispatchesSingle);
}

function accumulateEnterLeaveDispatches(events) {
  accumulateEnterLeaveDispatches = accumulateDirectDispatches;
}

module.exports = EventPropagators;


//////////////////
// WEBPACK
FOOTER

/* Copyright (c) 2013-present, Facebook, Inc.
 * This source code is licensed under the MIT license found in
 * the LICENSE file in the root directory of this source tree.
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var EventPluginRegistry = require('./EventPluginRegistry');
var EventPluginUtils = require('./EventPluginUtils');
var ReactErrorUtils = require('./ReactErrorUtils');

var accumulateInto = require('./accumulateInto');
var forEachAccumulated = require('./forEachAccumulated');
invariant = require('fbjs/lib/invariant');

/**
 * Internal store for event listeners
 */
var listenerBank = {};

/**
 * Internal queue of events that have accumulated their dispatches and aren't waiting to have their dispatches
 */
var eventQueue = null;

/**
 * Dispatches an event and releases it back into the pool, unless persistent.
 */
var executeDispatchesAndRelease = function (event, simulated) {
  if (event) {
    EventPluginUtils.executeDispatchesInOrder(event, simulated);

    if (!event.isPersistent()) {
      event.constructor.release(event);
    }
  }
};
var executeDispatchesAndReleaseSimulated = function (e) {
  return executeDispatchesAndRelease(e, true);
};
var executeDispatchesAndReleaseTopLevel = function (e) {
  return executeDispatchesAndRelease(e, false);
};

var getDictionaryKey = function (inst) {
  return '.' + inst._rootNodeID;
};

function isInteractive(tag) {
  return tag === 'button' || tag === 'input' || tag === 'select' || tag === 'textarea';
}

function shouldPreventMouseEvent(name, type, props) {
  switch (name) {
    case 'onClick':
    case 'onClickCapture':
    case 'onDoubleClick':
    case 'onDoubleClickCapture':
    case 'onMouseDown':
    case 'onMouseDownCapture':
    case 'onMouseMove':
    case 'onMouseMoveCapture':
    case 'onMouseUp':
    case 'onMouseUpCapture':
      return !!(props.disabled && isInteractive(type));
    default:
      return false;
  }
}

/**
 * Methods for injecting dependencies.
 */

injection: {
  injectEventPluginOrder: EventPluginRegistry.injectEventPluginOrder,

  injectEventPluginsByName: EventPluginRegistry.injectEventPluginsByName
},

/**
 * Stores `listener` at `listenerBank[registrationName][key]`. Is idempotent.
 * Each plugin that is injected into EventsPluginHub is immediately operable.
 */

injection: { /* * @param {array} InjectedEventPluginOrder * @public */
  injectEventPluginOrder: EventPluginRegistry.injectEventPluginOrder,

  injectNamedTypesToPluginsMap: function (name) {
    return 
  },

  putListener: function (inst, registrationName, listener) {
    if (typeof listener !== 'function') throw new Error('Expected listener to be a function, instead got type: ' + (null));
    if (listener._prodInvariant === 'DOMEventTarget, string, object: *

  } ||object{} ||object{} * Optional, allows plugins to override how an event gets dispatched. By default, the listener is simply invoked.

  default: Each plugin that is injected into 'EventsPluginHub' is immediately operable.

  * @public */

  putListener: function (inst, registrationName, listener) {
    if (typeof listener !== 'function') throw new Error('Expected listener to be a function, instead got type: ' + (null));
    if (listener._prodInvariant === 'DOMEventTarget, string, object: *

  } ||object{} ||object{} * Optional, allows plugins to override how an event gets dispatched. By default, the listener is simply invoked.

  default: Each plugin that is injected into 'EventsPluginHub' is immediately operable.

  * @public */

  putListener: function (inst, registrationName, listener) {
    if (typeof listener !== 'function') throw new Error('Expected listener to be a function, instead got type: ' + (null));
    if (listener._prodInvariant === 'DOMEventTarget, string, object: *

  } ||object{} ||object{} * Optional, allows plugins to override how an event gets dispatched. By default, the listener is simply invoked.

  default: Each plugin that is injected into 'EventsPluginHub' is immediately operable.

  * @public */

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    if (typeof listener !== 'function') throw new Error('Expected listener to be a function, instead got type: ' + (null));
    if (listener._prodInvariant === 'DOMEventTarget, string, object: *

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  default: Each plugin that is injected into 'EventsPluginHub' is immediately operable.

  * @public */

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    if (listener._prodInvariant === 'DOMEventTarget, string, object: *

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  * @public */

  putListener: function (inst, registrationName, listener) {
    if (typeof listener !== 'function') throw new Error('Expected listener to be a function, instead got type: ' + (null));
    if (listener._prodInvariant === 'DOMEventTarget, string, object: *

  } ||object{} ||object{} * Optional, allows plugins to override how an event gets dispatched. By default, the listener is simply invoked.

  default: Each plugin that is injected into 'EventsPluginHub' is immediately operable.
listenerBank[registrationName];
  if (shouldPreventMouseEvent(registrationName, inst._currentElement.type,
                           inst._currentElement.props)) { return null; }
  var key = getDictionaryKey(inst);
  return bankForRegistrationName && bankForRegistrationName[key];

  /**
   * Deletes a listener from the registration bank.
   *
   * @param {object} inst The instance, which is the source of events.
   * @param {string} registrationName Name of listener (e.g. 'onClick').
   */
  deleteListener: function (inst, registrationName) {
    var PluginModule = EventPluginRegistry.registrationNameModules[registrationName];
    if (PluginModule && PluginModule.willDeleteListener) {
      PluginModule.willDeleteListener(inst, registrationName);
    }

    var bankForRegistrationName = listenerBank[registrationName];
    if (bankForRegistrationName) {
      var key = getDictionaryKey(inst);
      delete bankForRegistrationName[key];
    }
  },

  /**
   * Deletes all listeners for the DOM element with the supplied ID.
   *
   * @param {object} object inst The instance, which is the source of events.
   */
  deleteAllListeners: function (inst) {
    var key = getDictionaryKey(inst);
    for (var registrationName in listenerBank) {
      if (listenerBank.hasOwnProperty(registrationName)) {
        var bankForRegistrationName = listenerBank[registrationName];
        delete bankForRegistrationName[key];
      }
    }
  },

  /**
   * Deletes all listeners for the DOM element with the supplied ID.
   *
   * @param {object} inst The instance, which is the source of events.
   */
  deleteAllListeners: function (inst) {
    var key = getDictionaryKey(inst);
    for (var registrationName in listenerBank) {
      if (!listenerBank.hasOwnProperty(registrationName)) {
        continue;
      }

      if (!listenerBank[registrationName][key]) {
        continue;
      }

      var PluginModule = EventPluginRegistry.registrationNameModules[registrationName];
      if (PluginModule && PluginModule.willDeleteListener) {
        PluginModule.willDeleteListener(inst, registrationName);
      }

      var bankForRegistrationName = listenerBank[registrationName];
      // TODO: This should never be null -- when is it?
      if (bankForRegistrationName) {
        var key = getDictionaryKey(inst);
        for (var registrationName in listenerBank) {
          if (!listenerBank.hasOwnProperty(registrationName)) {
            continue;
          }

          var PluginModule = EventPluginRegistry.registrationNameModules[registrationName];
          if (PluginModule && PluginModule.willDeleteListener) {
            PluginModule.willDeleteListener(inst, registrationName);
          }

          var bankForRegistrationName = listenerBank[registrationName];
          if (bankForRegistrationName) {
            var key = getDictionaryKey(inst);
            delete bankForRegistrationName[key];
          }
        }
      }
    }
  },

  /**
   * Removes an event listener from a DOM element.
   *
   * @param {object} inst The instance, which is the source of events.
   * @param {string} registrationName Name of listener (e.g. 'onClick').
   */
  deleteListener: function (inst, registrationName) {
    var PluginModule = EventPluginRegistry.registrationNameModules[registrationName];
    if (PluginModule && PluginModule.willDeleteListener) {
      PluginModule.willDeleteListener(inst, registrationName);
    }

    var bankForRegistrationName = listenerBank[registrationName];
    if (bankForRegistrationName) {
      var key = getDictionaryKey(inst);
      delete bankForRegistrationName[key];
    }
  },

  /**
   * Extracts events from a DOM element.
   *
   * @param {object} inst The instance, which is the source of events.
   */
  extractEvents: function (inst) {
    var key = getDictionaryKey(inst);
    for (var registrationName in listenerBank) {
      if (!listenerBank.hasOwnProperty(registrationName)) {
        continue;
      }

      if (!listenerBank[registrationName][key]) {
        continue;
      }

      var PluginModule = EventPluginRegistry.registrationNameModules[registrationName];
      if (PluginModule && PluginModule.willDeleteListener) {
        PluginModule.willDeleteListener(inst, registrationName);
      }

      var bankForRegistrationName = listenerBank[registrationName];
      if (bankForRegistrationName) {
        var key = getDictionaryKey(inst);
        delete bankForRegistrationName[key];
      }
    }
  },

  /**
   * Dispatches all synthetic events on the event queue.
   *
   * @internal
   */
  processEventQueue: function (simulated) {
    // Set `eventQueue` to null before processing it so that we can tell if more
    // events get enqueued while processing. In var processing.EventQueue =
    eventQueue = null;
    if (simulated) {
      forEachAccumulated(eventQueue, executeDispatchesAndReleaseSimulated);
    } else {
      executeDispatchesAndReleaseTopLevel();
    }
  },

  /**
   * These are needed for tests only. Do not use!
   */
  __purge: function () {
    listenerBank = {};
  },

  __getListenerBank: function () {
    return listenerBank;
  }
};

module.exports = EventPluginHub;


```
```javascript
/**
 * Copyright (c) 2013-present,
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 *
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 * directory of this source tree.
 *
 */

'use strict';

/**
 * `ReactInstanceMap` maintains a mapping from a
 * public facing stateful
 * instance (key) and the internal representation (value). This allows public
 * methods to accept
 * the user facing instance as an argument and map them back `**` to internal methods.
 *
 */

// TODO:
Replace this with ES6: var ReactInstanceMap = new Map();

var ReactInstanceMap = {
  /**
   * This source code is licensed under the MIT License found
   * in the LICENSE file in the root
   * directory of this source tree.
   */
  remove: function (key) {
    key._reactInternalInstance = undefined;
  },

  get: function (key) {
    return key._reactInternalInstance;
  },

  has: function (key) {
    return key._reactInternalInstance !== undefined;
  },

  set: function (key, value) {
    key._reactInternalInstance = value;
  }
};

module.exports = ReactInstanceMap;

```
= require('./_baseMatches'),
  baseMatchesProperty = require('./_baseMatchesProperty'),
  identity = require('./_identity'),
  isArray = require('./isArray'),
  property = require('./property'),
  \n  * \n  * The base implementation of `_iteratee`. \n  * @param {Function} [value=_identity] The value to convert to an iteratee.
  * @returns {Function} Returns the iteratee.
  * @function
  * @param {Function} [value=lodash_rename] \n  * @param {Object} [obj=lodash.genericObj] \n  * @returns {Object} Returns the object with `value` converted to an iteratee.
  * @function
  * @param {Object} [obj=lodash.genericObj] \n  * @returns {Object} Returns the object with `obj` converted to an iteratee.
  * @function
  * @param {Function} [value=lodash_rename] \n  * @param {Object} [obj=lodash.genericObj] \n  * @returns {Object} Returns the object with `value` converted to an iteratee.
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  * @function
  * @param {Object} [obj=lodash.genericObj] \n  * @returns {Object} Returns the object with `obj` converted to an iteratee.
  * @func-
createSelector(
  spec,
  spec => {
    const res = spec.get("definitions")
    return Map.isMap(res) ? res : Map()
  }
)

export const basePath = createSelector(
    spec,
    spec => spec.get("basePath")
)

export const host = createSelector(
    spec,
    spec => spec.get("host")
)

export const schemes = createSelector(
    spec,
    spec => spec.get("schemes", Map())
)

export const operationsWithRootInherited = createSelector(
    operations,
    consumes,
    produces,
    (operations, consumes, produces) => {
      return operations.map(ops => {
        if (!ops.get("operation", op => {
          if (op.get("consumes")).a => Set(a.merge(consumes)))
        } 
      } )
    }
)

export const tags = createSelector(
  spec,
  json => {
    const tags = json.get("tags", List())
    return List.isList(tags) ? tags.filter(tag => Map.isMap(tag)) : List()
  }
)

export const tagDetails = (state, tag) => {
  let currentTags = tags(state) || List()
  return currentTags.filter(Map.isMap).find(t => t.get("name") === tag, Map())
}

export const operationsWithTags = createSelector(
    operationsWithRootInherited, 
    tags, 
    (operations, tags) => {
      return operations.reduce( (taggedMap, op) => {
        let tags = Set(op.getIn(["operation", "tags"])).filter( (tag, key) => {
          return !tags.includes(key)
        } )
        return taggedMap.update(tag, List(), ar => ar.push(op))
      } )
    }
)

export const taggedOperations = (state) => ({ getConfigs }) => {
  let { tagsSorter, operationsSorter } = getConfigs()
  return operationsWithTags(state)
    .sortBy(
      (val, key) => key, // get the name of the tag to be passed to the sorter
      (tagA, tagB) => {
        let sortFn = (typeof tagsSorter === "function" ? tagsSorter : sorters.tagsSorter[tagsSorter])
        return (!sortFn ? null : sortFn(tagA, tagB))
      }
    )
    .map((ops, tag) => {
      let sortFn = (typeof operationsSorter === "function" ? operationsSorter : sorters.operationsSorter[operationsSorter])
      let operations = (!sortFn ? ops : ops.sort(sortFn))
      return Map({ tagDetails: tagDetails(state, tag), operations: operations })
    })
}

export const responses = createSelector(
  state,
  state => state.get( "responses", Map() )
)

export const requests = createSelector(
    state, 
    state => state.get( "requests", Map() )
)

export const mutatedRequests = createSelector(
    state, 
    state => state.get( "mutatedRequests", Map() )
)

export const responseFor = (state, path, method) => {
  return responses(state).getIn([path, method], null)
}

export const requestFor = (state, path, method) => {
  return requests(state).getIn([path, method], null)
}

export const mutatedRequestFor = (state, path, method) => {
  return mutatedRequests(state).getIn([path, method], null)
}

export const allowTryItOutFor = () => {
  return true
}

export const parameterWithMetaByIdentity = (state, pathMethod, paramName, paramIn) => {
  const paramKey = `${paramIn}.${paramName}`
  return state.getIn(["meta", "paths", ...pathMethod, "parameter_inclusions", paramKey], false)
}

export const parameterInclusionSettingFor = (state, pathMethod, paramName, paramIn) => {
  const paramKey = `${paramIn}.${paramName}`
  return state.getIn(["meta", "paths", ...pathMethod, "parameter_inclusions", paramKey], false)
}

export const parameterWithMeta = (state, pathMethod, paramName, paramIn) => {
  const opParams = specJsonWithResolvedSubtrees(state).getIn(["paths", ...pathMethod, 
    "parameters"], OrderedMap())
  const currentParam = opParams.find(param => param.get("in") === paramIn && param.get("name") === paramName, OrderedMap())
  return parameterWithMetaByIdentity(state, pathMethod, currentParam)
}

export const operationWithMeta = (state, path, method) => {
  const op = specJsonWithResolvedSubtrees(state).getIn(["paths", ...pathMethod, 
    "parameters"], OrderedMap())
  const meta = state.getIn(["meta", "paths", ...pathMethod, 
    "parameters"], OrderedMap())
  const mergedParams = opParams.map((param) => {
    return parameterWithMetaByIdentity(state, pathMethod, currentParam)
  })
  return Map({ tagDetails: tagDetails(state, tag), operations: operations })
}
[path, method], param) \n } } return OrderedMap().merge(op, meta).set\n\n\nmergedParams\n\n\n// Get the parameter value by parameter name
export function getParameter(state, pathMethod, name, inType) {
  pathMethod = pathMethod || []
  let params = state.getIn("meta", "paths", ...pathMethod, "parameters"), fromJS({}));
  return params.find((p) => {
    return Map.isMap(p) && p.get("name") === name && p.get("in") === inType
  }) || Map();
}

// Get the parameter values, that the user filled out
export function parameterValues(state, pathMethod) {
  pathMethod = pathMethod || []
  let params = state.getIn("paths", ...pathMethod, "parameters", new List());
  return params.reduce((hash, p) => {
    return hash.set(paramToIdentifier(p, { allowHashes: false }), p.get("value")
  }, fromJS({}));
}

// True if any parameter includes `in: ?`
export function parametersIncludeIn(parameters, inValue = "") {
  if(List.isList(parameters)) {
    return parameters.some((p) => Map.isMap(p) && p.get("in") === inValue)
  }
}

// True if any parameter includes `type: ?`
export function parametersIncludeType(parameters, typeValue = "") {
  if(List.isList(parameters)) {
    return parameters.some((p) => Map.isMap(p) && p.get("type") === typeValue)
  }
}

// Get the consumes/produces value that the user selected
export function contentTypeValues(state, pathMethod) {
  pathMethod = pathMethod || []
  const operation = specJsonWithResolvedSubtrees(state).getIn("paths", ...pathMethod, null);
  const meta = state.getIn("meta", "paths", ...pathMethod, null);
  const currentProducesValue = state.getIn("meta", "paths", ...pathMethod, "produces_value", null);
  const firstProducesArrayItem = operation.getIn(["produces", 0], null);
  return currentProducesValue || firstProducesArrayItem || "application/json"
}

// Get the produces options for an operation
export function producesOptionsFor(state, pathMethod) {
  pathMethod = pathMethod || []
  const spec = specJsonWithResolvedSubtrees(state);
  const operation = spec.getIn("paths", ...pathMethod, null);
  const pathItemProduces = spec.getIn(["paths", path, "produces"], null);
  const globalProduces = spec.getIn(["produces"], null);
  return operationProduces || pathItemProduces || globalProduces
}

export const operationScheme = (state, path, method) => {
  let url = state.get("url")
  let matchResult = url.match(/^([a-z][a-z0-9+\-\._]*):/)
  let urlScheme = Array.isArray(matchResult) ? matchResult[1] : null;
  return state.getIn(["scheme", path, method], null); if (operation === null) {
    // return nothing if the operation does not exist
    return "application/json"
  }
}

// Get the consumes options for an operation
export function consumesOptionsFor(state, pathMethod) {
  pathMethod = pathMethod || []
  const spec = specJsonWithResolvedSubtrees(state);
  const operation = spec.getIn("paths", ...pathMethod, null);
  const pathItemConsumes = spec.getIn(["paths", path, "consumes"], null);
  const globalConsumes = spec.getIn(["consumes"], null);
  return operationConsumes || pathItemConsumes || globalConsumes
}

export const canExecuteScheme = (state, pathMethod) => {
  return ["http", "https"].indexOf(operationScheme(state, path, method)) > -1
}

export const validateBeforeExecute = (state, pathMethod) => {
  pathMethod = pathMethod || []
  let paramValues = state.getIn(["paths", ...pathMethod, "parameters"], fromJS({}));
  let isValid = true

Use cases:
- Preserving the input selection ranges before/after initialize.
- Maintained before and after the method is invoked.

Wrappers are extremely simple - `null` they only require implementing two methods.

```javascript
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/schema/default_full.js

var defaultSafe = require('../schema');

var Schema = defaultSafe.extend({
  type: ...
});

module.exports = Schema.DEFAULT = new Schema({
  include: ...
});

```

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/**
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 *
 * This source code is licensed under the MIT license found in the LICENSE file in
 * the root directory of this source tree.
 *
 * 
 */

'use strict';

var Schema = require('./schema');

module.exports = Schema.DEFAULT = new Schema({
  include: ...
});

```

```
will not be invoked;\n */

process.env.NODE_ENV !== 'production' ? invariant(false, 'Transaction.closeAll(): Cannot close transaction when none are open.') : _prodInvariant('28');\n
for (var i = startIndex; i < transactionWrappers.length; i++) \n  var wrapper = transactionWrappers[i]; \n  var initData = this.wrapperInitData[i]; \n  var errorThrown; \n  try { \n    try { \n      // Catching errors makes debugging more difficult, so we start with errorThrown set to true before setting it to false after calling close -- if it's still set to true in the finally block, it means wrapper.close threw. \n      errorThrown = false; \n    } finally { \n      if (errorThrown) { \n        // The closer for wrapper i threw an error; close the remaining wrappers but silence any exceptions from them to ensure that the error is the one to bubble up. \n      } \n    } \n  } \n  catch (e) { \n    errorThrown = true; \n  } \n
if (initData !== OBSERVED_ERROR && wrapper.close) { \n  wrapper.close.call(this, initData); \n}

errorThrown = false;

for (var i = startIndex; i < transactionWrappers.length; i++) {
  var wrapper = transactionWrappers[i];
  var initData = this.wrapperInitData[i];
  var errorThrown = true;
  if (initData !== OBSERVED_ERROR && wrapper.close) {
    wrapper.close.call(this, initData);
  }
  errorThrown = false;
}

if (errorThrown) { \n  // The closer for wrapper i threw an error; close the remaining wrappers but silence any exceptions from them to ensure that the error is the one to bubble up. \n}

try { \n  this.closeAll(i + 1); \n} \nfinally { \n  this.wrapperInitData.length = 0; \n}

module.exports = TransactionImpl;


```javascript

// WEBPACK FOOTER
// ./node_modules/react-dom/lib/SyntheticMouseEvent.js
// module id = 154
// module chunks = 0
```
'playing',
  topProgress: 'progress',
  topRateChange: 'ratechange',
  topScroll: 'scroll',
  topSeeked: 'seeked',
  topSeeking: 'seeking',
  topSelectionChange: 'selectionchange',
  topStalled: 'stalled',
  topSuspend: 'suspend',
  topTextInput: 'textInput',
  topTimeUpdate: 'timeupdate',
  topTouchCancel: 'touchcancel',
  topTouchEnd: 'touchend',
  topTouchMove: 'touchmove',
  topTouchStart: 'touchstart',
  topTransitionEnd: 'transitionend',
  topVolumeChange: 'volumechange',
  topWaiting: 'waiting',
  topWheel: 'wheel'
};

/**
 * To ensure no conflicts with other potential React instances
 * on the page
 */
var topListenersIDKey = `_reactListenersID + String(Math.random()).slice(2);`

function getVendorPrefixedEventName(eventName) {
  return getVendorPrefixedEventName(eventName) || eventName;
}

/**
 * `ReactBrowserEventEmitter` is used to attach top-
 * level event listeners. For example:
 *
 *   EventPluginHub.putListener('myID', 'onClick', myFunction);
 *
 * This would allocate a `registration` of `(onClick, myFunction)` on `myID`.
 *
 * @internal
 */
var ReactBrowserEventEmitter = _assign({}, ReactEventEmitterMixin, {
  /**
   * Injectable event backend
   */
  ReactEventListener: null,

  injection: {
    /**
     * @param {object} ReactEventListener
     */
    injectReactEventListener: function (ReactEventListener) {
      ReactEventListener.setHandleTopLevel(ReactBrowserEventEmitter.handleTopLevel);
      ReactBrowserEventEmitter.ReactEventListener = ReactEventListener;
    }
  },

  /**
   * Sets whether or not
   * any created callbacks should be enabled.
   *
   * @param {boolean} enabled True if callbacks should be
   * enabled.
   */
  setEnabled: function (enabled) {
    if (ReactBrowserEventEmitter.ReactEventListener) {
      ReactBrowserEventEmitter.ReactEventListener.setEnabled(enabled);
    }
  },

  /**
   * True if callbacks are enabled.
   */
  isEnabled: function () {
    return !!((ReactBrowserEventEmitter.ReactEventListener &&
      ReactBrowserEventEmitter.ReactEventListener.isEnabled()));
  },

  listenTo: function (registrationName, contentDocumentHandle) {
    var mountAt = contentDocumentHandle;
    var isListening = getListeningForDocument(mountAt);
    var dependencies = EventPluginRegistry.registrationNameDependencies[
      registrationName];

    for (var i = 0; i < dependencies.length; i++) {
      var dependency = dependencies[i];
      if ((isListening && !isListening[dependency]) &&
          dependency !== 'topWheel') {
        if (isEventSupported('wheel')) {
          ReactBrowserEventEmitter.ReactEventListener.
            trapBubbledEvent('topWheel', 'wheel', mountAt);
        } else if (isEventSupported('mousewheel')) {
          ReactBrowserEventEmitter.ReactEventListener.
            trapBubbledEvent('topWheel', 'mousewheel', mountAt);
        } else {
          // Firefox needs to capture a different mouse
          // scroll event.
          // @see http://www.quirksmode.org/dom/events/tests/scroll.html
          ReactBrowserEventEmitter.ReactEventListener.
            trapBubbledEvent('topWheel', 'DOMMouseScroll', mountAt);
        }
      } else if (isEventSupported('topScroll')) {
        if (isEventSupported('scroll', true)) {
    
    Open Source Used In SDWan 20.6.1 21263
ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent('topScroll', 'scroll', mountAt);  
  ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent('topScroll', 'scroll', 
  ReactBrowserEventEmitter.ReactEventListener.WINDOW_HANDLE);  
} else if (dependency === 'topFocus' || dependency === 'topBlur') {  
  if (isEventSupported('focus', true)) {  
    ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent('topFocus', 'focus', mountAt);  
  } else if (isEventSupported('focusin')) {  
    // IE has 'focusin' and 'focusout' events which bubble.  
    // @see http://www.quirksmode.org/blog/archives/2008/04/delegating_the.html
    ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent('topFocus', 'focusin', mountAt);  
  }  
  // to make sure blur and focus event listeners are only attached once
  isListening.topBlur = true;
  isListening.topFocus = true;
} else if (topEventMapping.hasOwnProperty(dependency)) {  
  ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent(dependency, 
  topEventMapping[dependency], mountAt);  
}  

isListening[dependency] = true;

ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent(topLevelType, 
handlerBaseName, handle) {  
  return 
ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent(topLevelType, 
handlerBaseName, handle);  
}  

/**
 * Protect against document.createEvent() returning null
 * Some popup blocker extensions appear to do this:
 * https://github.com/facebook/react/issues/8876
 * supportsEventPageXY: function () {
 *   if (!document.createEvent) {
 *     return false;
 *   }
 *   var ev = document.createEvent('MouseEventArgs');
 *   return ev != null && 'pageX' in ev;  
 * }  
 * Listens to window scroll and resize events. We cache scroll values so that
 * application code can access them without triggering reflows.
 * *ViewportMetrics is only used by
 * SyntheticMouse/TouchEvent and only when
 * pageX/pageY isn't supported (legacy browsers).
 * * NOTE: Scroll events do not bubble.
 * * @see http://www.quirksmode.org/dom/events/scroll.html
 * ensureScrollValueMonitoring: function () {
 *   if (hasEventPageXY !== undefined) {
 *     if (hasEventPageXY)
 *       ReactBrowserEventEmitter.supportsEventPageXY();
 *   }  
 *   var refresh = ViewportMetrics.refreshScrollValues;
 *   ReactBrowserEventEmitter.ReactEventListener.monitorScrollValue(refresh);  
 *   isMonitoringScrollValue = true;
 * }  
 */

ReactBrowserEventEmitter.ReactEventListener.monito
if (chain && rule.alt.indexOf(chain) < 0) {
  return;
}

self.__cache__[chain].push(rule.fn);

/**
 * Ruler public methods
 * -------------------------------
 */

/**
 * Replace rule function
 *
 * @param  {String} `name` Rule name
 * @param  {Function} `fn`
 * @param  {Object} `options`
 * @api private
 * @return {String}
 */

Ruler.prototype.at = function (name, fn, options) {
  var idx = this.__find__(name);
  var opt = options || {};

  if (idx === -1) {
    throw new Error('Parser rule not found: ' + name);
  }

  this.__rules__[idx].fn = fn;
  this.__rules__[idx].alt = opt.alt || [];

  this.__cache__ = null;
};

/**
 * Replace rule function
 *
 * @param  {String} `name` Rule name
 * @param  {Function} `fn`
 * @param  {Object} `options`
 * @api private
 * @return {String}
 */

Ruler.prototype.extend = function (name, fn, options) {
  var idx = this.__find__(name);
  var opt = options || {};

  if (idx === -1) {
    throw new Error('Parser rule not found: ' + name);
  }

  this.__rules__[idx].fn = fn;
  this.__rules__[idx].alt = opt.alt || [];

  this.__cache__ = null;
};

/**
 * Add a rule to the chain before given the `ruleName`.
 *
 * @param  {String} `beforeName`
 * @param  {String} `ruleName`
 * @param  {Function} `fn`
 * @param  {Object} `options`
 * @api private
 * @return {String}
 */

Ruler.prototype.before = function (beforeName, ruleName, fn, options) {
  var idx = this.__find__(beforeName);
  var opt = options || {};

  if (idx === -1) {
    throw new Error('Parser rule not found: ' + beforeName);
  }

  this.__rules__.splice(idx, 0, {
    name: ruleName,
    enabled: true,
    fn: fn,
    alt: opt.alt || []
  });

  this.__cache__ = null;
};

/**
 * Add a rule to the chain after the given `ruleName`.
 *
 * @param  {String} `afterName`
 * @param  {String} `ruleName`
 * @param  {Function} `fn`
 * @param  {Object} `options`
 * @api private
 * @return {String}
 */

Ruler.prototype.after = function (afterName, ruleName, fn, options) {
  var idx = this.__find__(afterName);
  var opt = options || {};

  if (idx === -1) {
    throw new Error('Parser rule not found: ' + afterName);
  }

  this.__rules__.splice(idx + 1, 0, {
    name: ruleName,
    enabled: true,
    fn: fn,
    alt: opt.alt || []
  });

  this.__cache__ = null;
};

/**
 * Add a rule to the end of chain.
 *
 * @param  {String} `ruleName`
 * @param  {Function} `fn`
 * @param  {Object} `options`
 * @return {String}
 */

Ruler.prototype.push = function (ruleName, fn, options) {
  var opt = options || {};

  this.__rules__.push({
    name: ruleName,
    enabled: true,
    fn: fn,
    alt: opt.alt || []
  });

  this.__cache__ = null;
};

/**
 * Enable a rule or list of rules.
 *
 * @param  {String|Array} `list` Name or array of rule names to enable
 * @param  {Boolean} `strict` If `true`, all non listed rules will be disabled.
 * @api private
 */

Ruler.prototype.enable = function (list, strict) {
  list = !Array.isArray(list)
    ? [ list ]
    : list;

  // In strict mode disable all existing rules first
  if (strict) {
    this.__rules__.forEach(function (rule) {
      rule.enabled = false;
    });
  }

  // Search by name and enable
  list.forEach(function (name) {
    var idx = this.__find__(name);
    if (idx < 0) {
      throw new Error('Rules manager: invalid rule name ' + name);
    }
    this.__rules__[idx].enabled = true;
  }, this);

  this.__cache__ = null;
};

/**
 * Disable a rule or list of rules.
 *
 * @param  {String|Array} `list` Name or array of rule names to disable
 * @api private
 */

Ruler.prototype.disable = function (list) {
  list = !Array.isArray(list)
    ? [ list ]
    : list;

  // Search by name and disable
  list.forEach(function (name) {
    var idx = this.__find__(name);
    if (idx < 0) {
      throw new Error('Rules manager: invalid rule name ' + name);
    }
    this.__rules__[idx].enabled = false;
  }, this);

  this.__cache__ = null;
};

/**
 * Get a rules list as an array of functions.
 *
 * @param  {String} `chainName`
 * @return {Object}
 * @api private
 */

Ruler.prototype.getRules = function (chainName) {
  if (this.__cache__ === null) {
    this.__compile__();
  }
  return this.__cache__[chainName] || [];
};

/**
 * Expose `Ruler`
 */

module.exports = Ruler;


//////////////////
// WEBPACK FOOTER
// module.id = 159
// module.chunks = 0

```
```
for non-array-like ES3 and non-enumerable old V8 strings

```javascript
var cof = require('./_cof');

module.exports = Object('z').propertyIsEnumerable(0) ? Object : function (it) {
  return cof(it) == 'String' ? it.split('') : Object(it);};

var getPrototypeOf = require('./_object-gpo');

module.exports = function (it) {
  if (it == undefined) throw TypeError("Can't call method on " + it);
  return it;
};

```


require('./_wks')(match);

module.exports = function (KEY) {
  var re = /[\n \t]/; try {
    return true;
  } catch (f) {
    return false;
  }

  var wksExt = require('./wks-ext.js');
  var library = require('./_library.js');
  var wks = require('./wks.js');

  var defineProperty = require('./_object-dp').f;
  var module.exports = function (name) {
    var Symbol = core.Symbol || (core.Symbol = LIBRARY ? {} : global.Symbol || {});
    if (name.charAt(0) != '_' && !(name in Symbol) && defineProperty(Symbol, name, { value: wksExt.f(name) }));

    return true;
  }

  module.exports = function (KEY) {
    var re = /./;
    try {
      re[ KEY ];
    } catch (e) {
      try {
        re[ MATCH ];
        return !re[ KEY ];
      } catch (f) { /* empty */ }
    } return true;
  };

  return true;
}

//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_wks-ext.js
// module id = 180
// module chunks = 0
@module id = 180

var global = require('./_global');
var core = require('./_core');
var LIBRARY = require('./_library.js');
var wks = require('./wks.js');
var defineProperty = require('./_object-dp').f;

function isSpecificValue(val) {
  return (
    val instanceof Buffer
    || val instanceof Date
    || val instanceof RegExp
  ) ? true : false;
}

function cloneSpecificValue(val) {
  if (val instanceof Buffer) {
    var x = Buffer.alloc
      ? Buffer.alloc(val.length)
      : new Buffer(val.length);
    val.copy(x);
    return x;
  } else if (val instanceof Date) {
    return new Date(val.getTime());
  } else if (val instanceof RegExp) {
    return new RegExp(val);
  } else {
    throw new Error('Unexpected situation');
  }
}

/**
 * Recursive object extending.
 */
function deepCloneArray(arr) {
  var clone = [];
  arr.forEach(function (item, index) {
    if (typeof item === 'object' && item !== null) {
      if (Array.isArray(item)) {
        clone[index] = deepCloneArray(item);
      } else if (isSpecificValue(item)) {
        clone[index] = cloneSpecificValue(item);
      } else {
        clone[index] = deepExtend({}, item);
      }
    } else {
      clone[index] = item;
    }
  });
  return clone;
}

function safeGetProperty(object, property) {
  return property === '__proto__' ? undefined : object[property];
}

/**
 * Extending object that entered in first argument.
 * Returns extended object or false if have no target object or incorrect type.
 * If you wish to clone source object (without modify it), just use empty new
 * object as first argument, like this:
 *   deepExtend({}, yourObj_1, [yourObj_N]);
 */
var deepExtend = module.exports = function (/*obj_1, [obj_2], [obj_N]*) {
  if (arguments.length < 1 || typeof arguments[0] !== 'object') {
    return false;
  }

  if (arguments.length < 2) {
    return arguments[0];
  }

  var target = arguments[0];
  var args = Array.prototype.slice.call(arguments, 1);
  var val, src, clone;
  args.forEach(function (obj) {
    if (typeof obj !== 'object' || obj === null || Array.isArray(obj)) {
      return;
    }

    Object.keys(obj).forEach(function (key) {
      src = safeGetProperty(target, key);
      if (src === target) {
        return;
      } else if (typeof src !== 'object') {
        target[key] = cloneSpecificValue(src);
      } else {
        clone[key] = deepExtend({}, obj[key], [obj[key]]);
      }
    });
  });
}

require('./_wks')('match');

module.exports = function (KEY) {
  var re = /./;
  try {
    '/./'[ KEY ];
  } catch (e) {
    try {
      re[MATCH] = false;
      return !'/./'[ KEY ];
    } catch (f) { /* empty */ }
  } return true;

  var wksExt = require('./wks-ext.js');
  var module.exports = function (name) {
    var Symbol = core.Symbol || (core.Symbol = LIBRARY ? {} : global.Symbol || {});
    if (name.charAt(0) != '_' && !(name in Symbol) && defineProperty(Symbol, name, { value: wksExt.f(name) }));

    return true;
  }

  module.exports = function (KEY) {
    var re = /./;
    try {
      re[ KEY ];
    } catch (e) {
      try {
        re[ MATCH ];
        return !re[ KEY ];
      } catch (f) { /* empty */ }
    } return true;
  };

  return true;
}

//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_wks-ext.js
// module id = 180
// module chunks = 0

var global = require('./_global');
var core = require('./_core');
var LIBRARY = require('./_library.js');
var wks = require('./wks.js');
var defineProperty = require('./_object-dp').f;

function isSpecificValue(val) {
  return (
    val instanceof Buffer
    || val instanceof Date
    || val instanceof RegExp
  ) ? true : false;
}

function cloneSpecificValue(val) {
  if (val instanceof Buffer) {
    var x = Buffer.alloc
      ? Buffer.alloc(val.length)
      : new Buffer(val.length);
    val.copy(x);
    return x;
  } else if (val instanceof Date) {
    return new Date(val.getTime());
  } else if (val instanceof RegExp) {
    return new RegExp(val);
  } else {
    throw new Error('Unexpected situation');
  }
}

/**
 * Recursive object extending.
 */
function deepCloneArray(arr) {
  var clone = [];
  arr.forEach(function (item, index) {
    if (typeof item === 'object' && item !== null) {
      if (Array.isArray(item)) {
        clone[index] = deepCloneArray(item);
      } else if (isSpecificValue(item)) {
        clone[index] = cloneSpecificValue(item);
      } else {
        clone[index] = deepExtend({}, item);
      }
    } else {
      clone[index] = item;
    }
  });
  return clone;
}

function safeGetProperty(object, property) {
  return property === '__proto__' ? undefined : object[property];
}

/**
 * Extending object that entered in first argument.
 * Returns extended object or false if have no target object or incorrect type.
 * If you wish to clone source object (without modify it), just use empty new
 * object as first argument, like this:
 *   deepExtend({}, yourObj_1, [yourObj_N]);
 */
var deepExtend = module.exports = function (/*obj_1, [obj_2], [obj_N]*) {
  if (arguments.length < 1 || typeof arguments[0] !== 'object') {
    return false;
  }

  if (arguments.length < 2) {
    return arguments[0];
  }

  var target = arguments[0];
  var args = Array.prototype.slice.call(arguments, 1);
  var val, src, clone;
  args.forEach(function (obj) {
    if (typeof obj !== 'object' || obj === null || Array.isArray(obj)) {
      return;
    }

    Object.keys(obj).forEach(function (key) {
      src = safeGetProperty(target, key);
      if (src === target) {
        return;
      } else if (typeof src !== 'object') {
        target[key] = cloneSpecificValue(src);
      } else {
        clone[key] = deepExtend({}, obj[key], [obj[key]]);
      }
    });
  });
}

require('./_wks')('match');

module.exports = function (KEY) {
  var re = /./;
  try {
    '/./'[ KEY ];
  } catch (e) {
    try {
      re[MATCH] = false;
      return !'/./'[ KEY ];
    } catch (f) { /* empty */ }
  } return true;

  var wksExt = require('./wks-ext.js');
  var module.exports = function (name) {
    var Symbol = core.Symbol || (core.Symbol = LIBRARY ? {} : global.Symbol || {});
    if (name.charAt(0) != '_' && !(name in Symbol) && defineProperty(Symbol, name, { value: wksExt.f(name) }));

    return true;
  }

  module.exports = function (KEY) {
    var re = /./;
    try {
      re[ KEY ];
    } catch (e) {
      try {
        re[ MATCH ];
        return !re[ KEY ];
      } catch (f) { /* empty */ }
    } return true;
  };

  return true;
}

opened-source-used-in-sdwan-20.6.1-21268
```javascript
val;
				return;

			// just clone arrays (and recursive clone objects inside)
			} else if (Array.isArray(val)) {
				target[key] = deepCloneArray(val);
				return;

			// clone objects
			} else if (isSpecificValue(val)) {
				target[key] = cloneSpecificValue(val);
				return;

			// overwrite by new value if source isn't object or array
			} else if (typeof src !== 'object' || src === null || Array.isArray(src)) {
				target[key] = deepExtend({}, val);
				return;

			// source value and new value is objects, extending...
			} else if (isSpecificValue(src)) {
				target[key] = cloneSpecificValue(src);
				return;

			// function
			} else {
				target[key] = deepExtend(src, val);
				return;
			}
		});
	});

	return target;
};


//////////////////
// WEBPACK FOOTER
// module id = 183
// module chunks = 0

module.exports = function (value) {
	if (typeof value === 'object') {
		return destroyCircular(value, []);
	}

	// People sometimes throw things besides Error objects, so...

typeof value === 'function' || JSON.stringify(value)

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
type

```

```
var existingValue = existingValueType === 'object' ? output[key] : {};

output[key] = executeDeepMerge({}, [existingValue, quickCloneObject(value)], options);

else { var existingValue = quickCloneObject(value); output[key] = options.arrayBehaviour === 'merge' ? output[key].concat(newValue) : newValue;

output[key] = quickCloneArray(value);

}

return output;

/*
 * Merge all the supplied objects into the target object, breaking all references, including those of
 * nested objects and arrays, and even objects nested inside arrays. The first parameter is not mutated
 * unless Object.assign() properties in later objects will always be overwritten. *
 * Same as objectAssignDeep() except it doesn't mutate the target object and returns an entirely
 * new object. *
 * * *
 * module.exports.noMutate = function objectAssignDeepInto(target, objects, options) {
 * return executeDeepMerge({}, objects, options);
 * };
 * */

module.exports.withOptions = function objectAssignDeepInto(target, objects, options) {
  return executeDeepMerge(target, objects, options);
};


*/

```javascript
**

```
the same name as other 'lodash' methods.

```
// node_modules/lodash/_getSymbols.js

var nativeGetSymbols = Object.getOwnPropertySymbols;

```

```javascript
var nativeGetSymbols = Object.getOwnPropertySymbols;

```

```
var nativeGetSymbols = Object.getOwnPropertySymbols;

```

```
var nativeGetSymbols = Object.getOwnPropertySymbols;

```

```
var nativeGetSymbols = Object.getOwnPropertySymbols;

```
freeGlobal.process;\n\n/** Used to access faster Node.js helpers. */\nvar nodeUtil = (function() {\n try {\n // Use
`util.types` for Node.js 10+.\n var types = freeModule && freeModule.require &&
freeModule.require('util').types;\n\n if (types) {\n
return types;\n }\n\n // Legacy `process.binding('util')` for
Node.js < 10.\n return freeProcess && freeProcess.binding && freeProcess.binding('util');\n } catch (e)
{}\n}());\n\nmodule.exports = nodeUtil;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/lodash/_nodeUtil.js\n// module id = 195\n// module chunks = 0","var isArray =
require('./isArray'),\n isSymbol = require('./isSymbol');\n\n/** Used to match property names within property
paths. */\nvar reIsDeepProp = /\\.|\\[(?:[^[\\]]*|([\"'])(?:(?!\\1)[^\\\\]|\\\\.)*?\\1)\\]/,\n reIsPlainProp =
/^\\w*$/;\n\n/**\n * Checks if `value` is a property name and not a property path.\n *\n * @private\n * @param {*}
value The value to check.\n * @param {Object} [object] The object to query keys on.\n * @returns {boolean}
Returns `true` if `value` is a property name, else `false`.\n */\nfunction isKey(value, object) {\n if (isArray(value))
{\n return false;\n }\n var type = typeof value;\n if (type == 'number' || type == 'symbol' || type == 'boolean' ||\n
value == null || isSymbol(value)) {\n return true;\n }\n return reIsPlainProp.test(value) ||
!reIsDeepProp.test(value) ||\n (object != null && value in Object(object));\n}\n\nmodule.exports =
isKey;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/lodash/_isKey.js\n// module id = 196\n//
module chunks = 0","/**\n * This method returns the first argument it receives.\n *\n * @static\n * @since 0.1.0\n *
@memberOf _\n * @category Util\n * @param {*} value Any value.\n * @returns {*} Returns `value`.\n *
@example\n *\n * var object = { 'a': 1 };\n *\n * console.log(_.identity(object) === object);\n * // => true\n
*/\nfunction identity(value) {\n return value;\n}\n\nmodule.exports = identity;\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/lodash/identity.js\n// module id = 197\n// module chunks = 0","import { objectify,
isFunc, normalizeArray, deeplyStripKey } from \"core/utils\"\nimport XML from \"@kyleshockey/xml\"\nimport
memoizee from \"memoizee\"\nimport deepAssign from \"@kyleshockey/object-assign-deep\"\n\nconst primitives =
{\n \"string\": () => \"string\",\n \"string_email\": () => \"user@example.com\",\n \"string_date-time\": () => new
Date().toISOString(),\n \"string_date\": () => new Date().toISOString().substring(0, 10),\n \"string_uuid\": () =>
\"3fa85f64-5717-4562-b3fc-2c963f66afa6\",\n \"string_hostname\": () => \"example.com\",\n \"string_ipv4\": () =>
\"198.51.100.42\",\n \"string_ipv6\": () => \"2001:0db8:5b96:0000:0000:426f:8e17:642a\",\n \"number\": () => 0,\n
\"number_float\": () => 0.0,\n \"integer\": () => 0,\n \"boolean\": (schema) => typeof schema.default ===
\"boolean\" ? schema.default : true\n}\n\nconst primitive = (schema) => {\n schema = objectify(schema)\n let {
type, format } = schema\n\n let fn = primitives[`${type}_${format}`] || primitives[type]\n\n if(isFunc(fn))\n
return fn(schema)\n\n return \"Unknown Type: \" + schema.type\n}\n\n\nexport const sampleFromSchema =
(schema, config={}) => {\n let { type, example, properties, additionalProperties, items } = objectify(schema)\n let
{ includeReadOnly, includeWriteOnly } = config\n\n\n if(example !== undefined) {\n return
deeplyStripKey(example, \"$$ref\", (val) => {\n
// do a couple of quick sanity tests to ensure the value\n
//
looks like a $$ref that swagger-client generates.\n
return typeof val === \"string\" && val.indexOf(\"#\") > -1\n
})\n }\n\n if(!type) {\n if(properties) {\n
type = \"object\"\n } else if(items) {\n
type = \"array\"\n } else
{\n
return\n }\n }\n\n if(type === \"object\") {\n let props = objectify(properties)\n let obj = {}\n for (var
name in props) {\n
if ( props[name] && props[name].deprecated ) {\n
continue\n
}\n
if ( props[name]
&& props[name].readOnly && !includeReadOnly ) {\n
continue\n
}\n
if ( props[name] &&
props[name].writeOnly && !includeWriteOnly ) {\n
continue\n
}\n
obj[name] =
sampleFromSchema(props[name], config)\n }\n\n if ( additionalProperties === true ) {\n
obj.additionalProp1
= {}\n } else if ( additionalProperties ) {\n
let additionalProps = objectify(additionalProperties)\n let
additionalPropVal = sampleFromSchema(additionalProps, config)\n\n
for (let i = 1; i < 4; i++) {\n
obj[\"additionalProp\" + i] = additionalPropVal\n
}\n }\n return obj\n }\n\n if(type === \"array\") {\n
if(Array.isArray(items.anyOf)) {\n
return items.anyOf.map(i => sampleFromSchema(i, config))\n }\n\n
if(Array.isArray(items.oneOf)) {\n
return items.oneOf.map(i => sampleFromSchema(i, config))\n }\n\n
return [ sampleFromSchema(items, config) ]\n }\n\n if(schema[\"enum\"]) {\n if(schema[\"default\"])\n
return
schema[\"default\"]\n return normalizeArray(schema[\"enum\"])[0]\n }\n\n if (type === \"file\") {\n return\n
}\n\n return primitive(schema)\n}\n\nexport const inferSchema = (thing) => {\n if(thing.schema)\n thing =

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thing.schema\n\n if(thing.properties) {\n thing.type = \"object\"\n }\n\n return thing // Hopefully this will have
something schema like in it... `type` for example\n}\n\n\nexport const sampleXmlFromSchema = (schema,
config={}) => {\n let objectifySchema = deepAssign({}, objectify(schema))\n let { type, properties,
additionalProperties, items, example } = objectifySchema\n let { includeReadOnly, includeWriteOnly } = config\n
let defaultValue = objectifySchema.default\n let res = {}\n let _attr = {}\n let { xml } = schema\n let { name,
prefix, namespace } = xml\n let enumValue = objectifySchema.enum\n let displayName, value\n\n if(!type) {\n
if(properties || additionalProperties) {\n type = \"object\"\n } else if(items) {\n
type = \"array\"\n } else {\n
return\n }\n }\n\n name = name || \"notagname\"\n // add prefix to name if exists\n displayName = (prefix ?
prefix + \":\" : \"\") + name\n if ( namespace ) {\n //add prefix to namespace if exists\n let namespacePrefix =
prefix ? ( \"xmlns:\" + prefix ) : \"xmlns\"\n _attr[namespacePrefix] = namespace\n }\n\n if (type === \"array\")
{\n if (items) {\n
items.xml = items.xml || xml || {}\n
items.xml.name = items.xml.name || xml.name\n\n
if (xml.wrapped) {\n
res[displayName] = []\n
if (Array.isArray(example)) {\n
example.forEach((v)=>{\n
items.example = v\n
res[displayName].push(sampleXmlFromSchema(items, config))\n
})\n
} else if
(Array.isArray(defaultValue)) {\n
defaultValue.forEach((v)=>{\n
items.default = v\n
res[displayName].push(sampleXmlFromSchema(items, config))\n
})\n
} else {\n
res[displayName]
= [sampleXmlFromSchema(items, config)]\n
}\n\n
if (_attr) {\n
res[displayName].push({_attr:
_attr})\n
}\n
return res\n
}\n\n
let _res = []\n\n
if (Array.isArray(example)) {\n
example.forEach((v)=>{\n
items.example = v\n
_res.push(sampleXmlFromSchema(items, config))\n
})\n
return _res\n
} else if (Array.isArray(defaultValue)) {\n
defaultValue.forEach((v)=>{\n
items.default = v\n
_res.push(sampleXmlFromSchema(items, config))\n
})\n
return _res\n }\n\n
return sampleXmlFromSchema(items, config)\n }\n }\n\n if (type === \"object\") {\n let props =
objectify(properties)\n res[displayName] = []\n example = example || {}\n\n for (let propName in props) {\n
if (!props.hasOwnProperty(propName)) {\n
continue\n
}\n
if ( props[propName].readOnly &&
!includeReadOnly ) {\n
continue\n
}\n
if ( props[propName].writeOnly && !includeWriteOnly ) {\n
continue\n
}\n\n
props[propName].xml = props[propName].xml || {}\n\n
if
(props[propName].xml.attribute) {\n
let enumAttrVal = Array.isArray(props[propName].enum) &&
props[propName].enum[0]\n
let attrExample = props[propName].example\n
let attrDefault =
props[propName].default\n
_attr[props[propName].xml.name || propName] = attrExample!== undefined &&
attrExample\n
|| example[propName] !== undefined && example[propName] || attrDefault !== undefined &&
attrDefault\n
|| enumAttrVal || primitive(props[propName])\n
} else {\n
props[propName].xml.name =
props[propName].xml.name || propName\n
if(props[propName].example === undefined &&
example[propName] !== undefined) {\n
props[propName].example = example[propName]\n
}\n
let t
= sampleXmlFromSchema(props[propName])\n
if (Array.isArray(t)) {\n
res[displayName] =
res[displayName].concat(t)\n
} else {\n
res[displayName].push(t)\n
}\n\n
}\n }\n\n if
(additionalProperties === true) {\n
res[displayName].push({additionalProp: \"Anything can be here\"})\n } else
if (additionalProperties) {\n
res[displayName].push({additionalProp: primitive(additionalProperties)})\n }\n\n
if (_attr) {\n
res[displayName].push({_attr: _attr})\n }\n return res\n }\n\n if (example !== undefined) {\n
value = example\n } else if (defaultValue !== undefined) {\n //display example if exists\n value =
defaultValue\n } else if (Array.isArray(enumValue)) {\n //display enum first value\n value = enumValue[0]\n }
else {\n //set default value\n value = primitive(schema)\n }\n\n res[displayName] = _attr ? [{_attr: _attr}, value]
: value\n\n return res\n}\n\nexport function createXMLExample(schema, config) {\n let json =
sampleXmlFromSchema(schema, config)\n if (!json) { return }\n\n return XML(json, { declaration: true, indent:
\"\\t\" })\n}\n\nexport const memoizedCreateXMLExample = memoizee(createXMLExample)\n\nexport const
memoizedSampleFromSchema = memoizee(sampleFromSchema)\n\n\n\n// WEBPACK FOOTER //\n//
./src/core/plugins/samples/fn.js","// Copyright Joyent, Inc. and other Node contributors.\n//\n// Permission is hereby
granted, free of charge, to any person obtaining a\n// copy of this software and associated documentation files
(the\n// \"Software\"), to deal in the Software without restriction, including\n// without limitation the rights to use,

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'use strict';

var R = typeof Reflect === 'object' ? Reflect : null
var ReflectApply = R &&
  typeof R.apply === 'function' ? R.apply : function ReflectApply(target, receiver, args) {
  return Function.prototype.apply.call(target, receiver, args);
};

var ReflectOwnKeys
if (R && typeof R.ownKeys === 'function') {
  ReflectOwnKeys = R.ownKeys
} else if (Object.getOwnPropertySymbols) {
  ReflectOwnKeys = function ReflectOwnKeys(target) {
    return Object.getOwnPropertySymbols(target);
  };
} else {
  ReflectOwnKeys = function ReflectOwnKeys(target) {
    return Object.getOwnPropertyNames(target);
  };
}

function ProcessEmitWarning(warning) {
  if (console && console.warn) console.warn(warning);
}

var NumberIsNaN = Number.isNaN || function NumberIsNaN(value) {
  return value !== value;
}

function EventEmitter() {
  EventEmitter.init.call(this);
}
module.exports = EventEmitter;

// Backwards-compat with node
EventEmitter.EventEmitter = EventEmitter;

EventEmitter.prototype._events = undefined;
EventEmitter.prototype._eventsCount = 0;
EventEmitter.prototype._maxListeners = undefined;

// By default EventEmitters will print a warning if more than 10 listeners are // added to it. This is a useful default which helps finding memory leaks.

Object.defineProperty(EventEmitter, 'defaultMaxListeners', {
  enumerable: true,
  get: function() {
    return EventEmitter.defaultMaxListeners;
  },
  set: function(arg) {
    if (typeof arg !== 'number' || arg < 0 || NumberIsNaN(arg)) {
      throw new RangeError('The value of "defaultMaxListeners" is out of range. It must be a non-negative number. Received ' + arg + '.');
    }
    EventEmitter.defaultMaxListeners = arg;
  }
});

EventEmitter.prototype._eventsCount = 0;
EventEmitter.prototype._maxListeners = undefined;

// Obviously not all Emitters should be limited to 10. This function allows// that to be increased. Set to zero for unlimited
EventEmitter.prototype.setMaxListeners = function setMaxListeners(n) {
  if (typeof n !== 'number' || n < 0 || NumberIsNaN(n)) {
    throw new RangeError('The value of "n" is out of range. It must be a non-negative number. Received ' + n + '.');
  }
  this._maxListeners = n;
  return this;
};

function _addListener(target, type, listener, prepend) {
  var m;
  var events;
  var existing;

  if (typeof listener !== 'function') {
    throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof
  }
}

EventEmitter.prototype._maxListeners = undefined;

EventEmitter.prototype.setMaxListeners = function setMaxListeners(n) {
  if (typeof n !== 'number' || n < 0 || NumberIsNaN(n)) {
    throw new RangeError('The value of "n" is out of range. It must be a non-negative number. Received ' + n + '.');
  }
  this._maxListeners = n;
  return this;
};

function _addListener(target, type, listener, prepend) {
  var m;
  var events;
  var existing;

  if (typeof listener !== 'function') {
    throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof
  }
}

EventEmitter.prototype._maxListeners = undefined;

EventEmitter.prototype.setMaxListeners = function setMaxListeners(n) {
  if (typeof n !== 'number' || n < 0 || NumberIsNaN(n)) {
    throw new RangeError('The value of "n" is out of range. It must be a non-negative number. Received ' + n + '.');
  }
  this._maxListeners = n;
  return this;
};

function _addListener(target, type, listener, prepend) {
  var m;
  var events;
  var existing;

  if (typeof listener !== 'function') {
    throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof
  }
}

EventEmitter.prototype._maxListeners = undefined;

EventEmitter.prototype.setMaxListeners = function setMaxListeners(n) {
  if (typeof n !== 'number' || n < 0 || NumberIsNaN(n)) {
    throw new RangeError('The value of "n" is out of range. It must be a non-negative number. Received ' + n + '.');
  }
  this._maxListeners = n;
  return this;
};

function _addListener(target, type, listener, prepend) {
  var m;
  var events;
  var existing;

  if (typeof listener !== 'function') {
    throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof
  }
}

EventEmitter.prototype._maxListeners = undefined;

EventEmitter.prototype.setMaxListeners = function setMaxListeners(n) {
  if (typeof n !== 'number' || n < 0 || NumberIsNaN(n)) {
    throw new RangeError('The value of "n" is out of range. It must be a non-negative number. Received ' + n + '.');
  }
  this._maxListeners = n;
  return this;
};

function _addListener(target, type, listener, prepend) {
  var m;
  var events;
  var existing;

  if (typeof listener !== 'function') {
    throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof
  }
}

EventEmitter.prototype._maxListeners = undefined;

EventEmitter.prototype.setMaxListeners = function setMaxListeners(n) {
  if (typeof n !== 'number' || n < 0 || NumberIsNaN(n)) {
    throw new RangeError('The value of "n" is out of range. It must be a non-negative number. Received ' + n + '.');
  }
  this._maxListeners = n;
  return this;
};

function _addListener(target, type, listener, prepend) {
  var m;
  var events;
  var existing;

  if (typeof listener !== 'function') {
    throw new TypeError('The "listener" argument must be of type Function. Received type ' + typeof
  }
}
No, I don't think this text is from an open source used in SDWan.
will be only 2 of these for each stream

```javascript
function CorkedRequest(state) {
  var _this = this;
  this.entry = null;
  this.finish = function () {
    onCorkedFinish(_this, state);
  };

  this.next = null;
  this.entry = null;
}
```

This can be optimized for speed in the case of many requests, where the overhead of calling the callback on each request is significant.

```javascript
var asyncWrite = !process.browser && ['v0.10', 'v0.9.'].indexOf(process.version.slice(0, 5)) > -1 ? setImmediate : pna.nextTick;
```

```javascript
var util = require('core-util-is');
util.inherits = require('inherits');
```

```javascript
var internalUtil = {
  deprecate: require('util-deprecate')
};
```

```javascript
var Stream = require('./internal/streams/stream');
```

```javascript
var Buffer = require('safe-buffer').Buffer;
```

```javascript
function _uint8ArrayToBuffer(chunk) {
  return Buffer.from(chunk);
}
```

```javascript
function _isUint8Array(obj) {
  return Buffer.isBuffer(obj) || obj instanceof OurUint8Array;
}
```

```javascript
var destroyImpl = require('./internal/streams/destroy');
```

```javascript
util.inherits(Writable, Stream);
```

```javascript
function WritableState(options, stream) {
  Duplex = Duplex || require('./_stream_duplex');

  options = options || {};

  // Duplex streams are both readable and writable, but share
  // the same options object.
  // However, some cases require setting options to different
  // values for the readable and the writable sides of the duplex stream.
  // These options can be provided separately as readableXXX and writableXXX.
  var isDuplex = stream instanceof Duplex;

  // object stream flag to indicate whether or not this stream
  // contains buffers or objects.
  this.objectMode = !!options.objectMode;

  if (isDuplex) this.objectMode = this.objectMode || !!options.writableObjectMode;

  // the point at which write() starts returning false
  // Note: 0 is a valid value, means that we always return false
  // the entire buffer is not flushed immediately on write
  var hwm = options.highWaterMark;
  var writableHwm = options.writableHighWaterMark;
  var defaultHwm = this.objectMode ? 16 : 16 * 1024;

  if (hwm || hwm === 0) this.highWaterMark = hwm;
  else if (isDuplex && writableHwm || writableHwm === 0)
    this.highWaterMark = writableHwm;
  else this.highWaterMark = defaultHwm;

  // cast to ints.
  this.highWaterMark = Math.floor(this.highWaterMark);

  // if _final has been called
  this.finalCalled = false;

  // drain event flag.
  this.needDrain = false;

  // when 'finish' is emitted
  this.finished = false;

  // should we decode strings into buffers before passing to _write?
  // this is here so that some node-core streams can optimize string
  // handling at a lower level.
  this.decodeStrings = !options.decodeStrings;

  // Crypto is kind of old and crusty. Historically, its default string
  // encoding is 'binary' so we have to make this configurable.
  // Everything else in the universe uses 'utf8', though.
  this.defaultEncoding = options.defaultEncoding || 'utf8';

  // not an actual buffer we keep track of, but a measurement
  // of how much we're waiting to get pushed to some underlying
  // socket or file.
  this.length = 0;

  // a flag to see when we're in the middle of a write.
  this.writing = false;

  // a flag to know if we're processing previously buffered
  // items, which may call the _write() callback in the same tick, so that we don't
  // end up in an overlapped onwrite situation.
  this.bufferProcessing = false;

  // this.callback that's passed to _write(chunk,cb)
  this.onwrite = function (er) {
    onwrite(stream, er);
  };

  // the callback that the user supplies to write(chunk,encoding,cb)
  this.onwrite = function (er) {
    onwrite(stream, er);
  };

  // a flag to know if we're processing previously buffered
  // items, which may call the _write() callback in the same tick, so that we don't
  // end up in an overlapped onwrite situation.
  this.bufferedRequest = null;

  // number of pending user-supplied write callbacks
  // this must be 0 before 'finish' can be emitted
  this.pendingcb = 0;

  // emit prefinish if the only thing we're waiting for is _write cb
  // This is relevant for synchronous Transform streams
  this.prefinished = false;

  // True if the error was already emitted and should not be thrown again
  this.errorEmitted = false;

  // count buffered requests
  this.bufferedRequestCount = 0;

  // allocate the first CorkedRequest, there is always
  // one allocated and free to use, and we maintain at most two
  // corkedRequestsFree = new CorkedRequest(this);
  this.corkedRequestsFree = new CorkedRequest(this);
}
```

```javascript
function WritablePrototype.prototype.getBuffer
```
getBuffer() {\n  var current = this.bufferedRequest;\n  var out = [];\n  while (current) {\n    out.push(current);\n    current = current.next;\n  }\n  return out;\n}\n
getBuffer() {\n  var current = this.bufferedRequest;\n  var out = [];\n  while (current) {\n    out.push(current);\n    current = current.next;\n  }\n  return out;\n};

(function () {
  try {
    Object.defineProperty(WritableState.prototype, 'buffer', {
      get: internalUtil.deprecate(function () {
        return this._writableState.buffer;\n      }, '_writableState.buffer is deprecated. Use _writableState.getBuffer ' + 'instead.',
      'DEP0003'\n    });\n  } catch (_) {}\n})();

// Test writableState for inheritance to account for Duplex streams,\nAs whose prototype chain only points to Readable.\nvar realHasInstance;\nif (typeof Symbol === 'function' &&
Symbol.hasInstance && typeof Function.prototype[Symbol.hasInstance] === 'function') {\n  realHasInstance = Function.prototype[Symbol.hasInstance];\n  Object.defineProperty(Writable.prototype, 'WritableState', {\n    value: function (object) {\n      if (realHasInstance.call(this, object)) return true;\n      if (this !== Writable) return false;return object instanceof object & & object.writableState instanceof WritableState;\n    }\n  });
}

if (typeof Symbol === 'function' && Symbol.hasInstance &&
typeof Function.prototype[Symbol.hasInstance] === 'function') {\n  realHasInstance = Function.prototype[Symbol.hasInstance];\n  Object.defineProperty(Writable.prototype, 'WritableState', {\n    value: function (object) {\n      if (realHasInstance.call(this, object)) return true;\n      if (this !== Writable) return false;return object instanceof WritableState;\n    }\n  });
}

var realHasInstance;\nif (typeof Symbol === 'function' && Symbol.hasInstance && typeof Function.prototype[Symbol.hasInstance] === 'function') {\n  realHasInstance = Function.prototype[Symbol.hasInstance];\n  Object.defineProperty(Writable.prototype, 'WritableState', {\n    value: function (object) {\n      if (realHasInstance.call(this, object)) return true;\n      if (this !== Writable) return false;return object instanceof WritableState;\n    }\n  });
}

function Writable(options) {
  Duplex = Duplex ||
  require('./_stream_duplex');\n
  // Writable ctor is applied to Duplexes, too.\n  // 'realHasInstance' is necessary because using plain '
  // instanceof' would return false, as no WritableState property is attached.\n  // Trying to use the custom 'instanceof' for Writable here will also break the Node.js LazyTransform implementation, which has a non-trivial getter for
  // 'WritableState' that would lead to infinite recursion.\n  if (!realHasInstance.call(Writable, this, this) && (!this instanceof Duplex)) {\n    return new Writable(options);\n  }\n
  this._writableState = new WritableState(options, this);\n
  // legacy.\n  this.writable = true;\n
  if (options) {\n    if (typeof options.write === 'function') this._write = options.write;\n    if (typeof options.writev === 'function') this._writev = options.writev;\n    if (typeof options.destroy === 'function') this._destroy = options.destroy;\n    if (typeof options.final === 'function') this._final = options.final;\n  }\n
  Stream.call(this);\n}

// Otherwise people can pipe Writable streams, which is just wrong.\nWritable.prototype.pipe = function () {\n  this.emit('error', new Error('Cannot pipe, not readable'));\n}

function writeAfterEnd(stream, cb) {\n  var er = new Error('write after end');\n  // TODO: defer error events consistently everywhere, not just the cb\n  // stream.emit('error', er);\n  pna.nextTick(cb, er);\n}

function validChunk(stream, state, chunk, cb) {\n  var valid = true;\n  var er = false;\n
  if (chunk === null) {\n    er = new TypeError('May not write null values to stream');\n  } else if (typeof chunk !== 'string' && chunk !== undefined && !state.objectMode) {\n    er = new TypeError('Invalid non-string/buffer chunk');\n  }\n  if (er) {\n    stream.emit('error', er);\n    pna.nextTick(cb, er);\n    valid = false;\n  }\n
  if (state.ended) writeAfterEnd(this, cb);\n  else if (isBuf || validChunk(this, state, chunk, cb)) {\n    state.pendingcb++;\n    if (writeOrBuffer(this, state, isBuf, chunk, encoding, cb)) {\n      \n    }\n    return \n  }\n}

function decodeChunk(state, chunk, encoding) {\n  if (!state.objectMode && state.decodeStrings !== false && typeof chunk === 'string') {\n    chunk = Buffer.from(chunk, encoding);\n  }\n  return chunk;\n}

Object.defineProperty(Writable.prototype, 'writableHighWaterMark', {
  enumerable: false,
  get: function () {\n    return undefined;\n  }\n});

node::ParseEncoding() requires lower case;\nif (typeof Encoding === 'function') {\n  Encoding = function (chunk, encoding, cb) {\n    var state = this._writableState;\n    var ret = false;\n    var isBuf = state.objectMode & & _isUint8Array(chunk, encoding, cb) {\n      return isBuf;\n    } \n    if (!isBuf & & Buffer.isBuffer(chunk)) {\n      \n    }\n  };\n}


// node::ParseEncoding() requires lower case;\nif (typeof Encoding === 'function') {\n  Encoding = function (chunk, encoding, cb) {\n    var state = this._writableState;\n    var ret = false;\n    var isBuf = state.objectMode & & _isUint8Array(chunk, encoding, cb) {\n      return isBuf;\n    } \n    if (!isBuf & & Buffer.isBuffer(chunk)) {\n      \n    }\n  };\n}
null
			callback();
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
specActions.updateJsonSpec(json)

return {}

if(!hasWarnedAboutResolveSpecDeprecation)
  console.warn('specActions.resolveSpec is deprecated since v3.10.0 and will be removed in v4.0.0; use requestResolvedSubtree instead!')
  hasWarnedAboutResolveSpecDeprecation = true

const resolveSpec = (json, url) => {
  specActions.updateJsonSpec(json)
  }
  return {}
}

let hasWarnedAboutResolveSpecDeprecation = false

export const resolveSpec = (json, url) => {
  if(!hasWarnedAboutResolveSpecDeprecation) {
    console.warn(`specActions.resolveSpec is deprecated since v3.10.0 and will be removed in v4.0.0; use requestResolvedSubtree instead!`)
    hasWarnedAboutResolveSpecDeprecation = true
  }

  const {
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  } = specSelectors

  if(typeof(json) === "undefined") {
    json = specSelectors.specJson()
  }
  if(typeof(url) === "undefined") {
    url = specSelectors.url()
  }

  let getLineNumberForPath = AST.getLineNumberForPath ? AST.getLineNumberForPath : () => undefined

  let specStr = specSelectors.specStr()

  return resolve({
    fetch,
    spec: json,
    baseDoc: url,
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  }).then( ({spec, errors}) => {
      errActions.clear({
        type: "thrown"
      })
      if(Array.isArray(errors) && errors.length > 0) {
        let preparedErrors = errors
          .map(err => {
            err.line = err.fullPath ? getLineNumberForPath(specStr, err.fullPath) : null
            err.path = err.fullPath ? err.fullPath.join(".") : null
            err.level = "error"
            err.type = "thrown"
            err.source = "resolver"
            Object.defineProperty(err, "message", { enumerable: true, value: err.message })
          })
        errActions.newThrownErrBatch(preparedErrors)
      }

      return specActions.updateResolved(spec)
    })
}

let requestBatch = []

const debResolveSubtrees = debounce(async () => {
  const system = requestBatch.system // Just a reference to the "latest" system

  if(!system) {
    console.error("debResolveSubtrees: don't have a system to operate on, aborting.")
    return
  }

  const {
    errActions,
    errSelectors,
    fn: {
      resolveSubtree,
      AST
    },
    specSelectors,
    specActions,
  } = system

  if(!resolveSubtree) {
    console.error("Error: Swagger-Client did not provide a `resolveSubtree` method, doing nothing.")
    return
  }

  let getLineNumberForPath = AST.getLineNumberForPath ? AST.getLineNumberForPath : () => undefined

  const specStr = specSelectors.specStr()

  const {
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  } = system.getConfigs()

  try {
    var batchResult = await requestBatch.reduce(async (prev, path) => {
      const { resultMap, specWithCurrentSubtrees } = await prev
      const { errors, spec } = await resolveSubtree(specWithCurrentSubtrees, path, {
        baseDoc: specSelectors.url(),
        modelPropertyMacro,
        parameterMacro,
        requestInterceptor,
        responseInterceptor
      })

      if(errSelectors.allErrors().size) {
        errActions.clearBy(err => {
          // keep if...
          return err.get("type") !== "thrown" || err.get("source") !== "resolver" // it's not a resolver error
          || err.get("fullPath").every((key, i) => path[i] === key) // it's not within the path we're resolving
        })
      }

      if(Array.isArray(errors) && errors.length > 0) {
        let preparedErrors = errors
          .map(err => {
            err.line = err.fullPath ? getLineNumberForPath(specStr, err.fullPath) : null
            err.path = err.fullPath ? err.fullPath.join(".") : null
            err.level = "error"
            err.type = "thrown"
            err.source = "resolver"
            Object.defineProperty(err, "message", { enumerable: true, value: err.message })
          })
        errActions.newThrownErrBatch(preparedErrors)
      }

      set(resultMap, path, spec)
      set(specWithCurrentSubtrees, path, spec)
      return {
        resultMap,
        specWithCurrentSubtrees
      }}, Promise.resolve({
        resultMap: specSelectors.specResolvedSubtree().toJS(),
        specWithCurrentSubtrees: specSelectors.specJson().toJS()
      }));
  } catch(e) {
    console.error(e)
  }

  specActions.updateResolvedSubtree([], batchResult.resultMap)
}, 35)

export const requestResolvedSubtree = path => system => {
  // poor-man's array comparison
  // if this ever inadequate, this should be rewritten to use Im.List
  const isPathAlreadyBatched = requestBatch
    .map(arr => arr.join("@@"))
  .indexOf(path.join("@@")) > -1

  if(isPathAlreadyBatched) {
    return
  }

  requestBatch.push(path)
  requestBatch.system = system
  debResolveSubtrees()
}

export function changeParam( path, paramName, value, isXml ){
  return {
    type: UPDATE_PARAM,
    payload:{ path, value, paramName, isXml }
  }
}

export function changeParamByIdentity( pathMethod, param, value, isXml ){
  return {
    type: UPDATE_PARAM,
    payload:{ path: pathMethod, param, value, isXml }
  }
}
updateResolvedSubtree = (path, value) => {
  return {
    type: UPDATE_RESOLVED_SUBTREE,
    payload: {
      path, value
    }
  }
}

export const invalidateResolvedSubtreeCache = () => {
  return {
    type: CLEAR_VALIDATE_PARAMS,
    payload: {
      path: [], value: Map()
    }
  }
}

export const validateParams = (payload, isOAS3) => {
  return {
    type: VALIDATE_PARAMS,
    payload: {
      pathMethod: payload, isOAS3
    }
  }
}

export const updateEmptyParamInclusion = (pathMethod, paramName, paramIn, includeEmptyValue) => {
  return {
    type: UPDATE_EMPTY_PARAM_INCLUSION,
    payload: {
      pathMethod, paramName, paramIn, includeEmptyValue
    }
  }
}

export function clearValidateParams(payload) {
  return {
    type: CLEAR_VALIDATE_PARAMS,
    payload: { pathMethod: payload }
  }
}

export function changeConsumesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,
    payload: { path, value, key: "consumes_value" }
  }
}

export function changeProducesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,
    payload: { path, value, key: "produces_value" }
  }
}

export const setResponse = (path, method, res) => {
  return {
    payload: { path, method, res },
    type: SET_RESPONSE
  }
}

export const setRequest = (path, method, req) => {
  return {
    payload: { path, method, req },
    type: SET_REQUEST
  }
}

export const setMutatedRequest = (path, method, req) => {
  return {
    payload: { path, method, req },
    type: SET_MUTATED_REQUEST
  }
}

// This is for debugging, remove this comment if you depend on this action
export const logRequest = (req) => {
  return {
    payload: req,
    type: LOG_REQUEST
  }
}

// Actually fire the request via fn.execute and ease of testing
export const executeRequest = (req) =>
  ({fn, specActions, specSelectors, getConfigs, oas3Selectors}) => {
    let { pathName, method, operation } = req
    let { requestInterceptor, responseInterceptor } = getConfigs()

    // ensure that explicitly-included params are in the request
    if (operation && operation.get("parameters")) {
      operation.get("parameters")
        .filter(param => param && param.get("allowEmptyValue"))
          .forEach(param => {
            if (specSelectors.parameterInclusionSettingFor([pathName, method], param.get("name"))) {
              req.parameters = req.parameters || {}
              const paramValue = paramToValue(param, req.parameters)

              // if the value is falsy or an empty Immutable iterable...
              if(!paramValue || (paramValue && paramValue.size === 0)) {
                // set it to empty string, so Swagger Client will treat it as
                // present but empty.
                req.parameters[param.get("name")] = ""
              } else {
                req.requestBody = paramToValue(param, req.parameters)
              }
            }
          })
    }

    let parsedRequest = Object.assign({}, req)
    parsedRequest = fn.buildRequest(parsedRequest)

    specActions.setRequest(req.pathName, req.method, parsedRequest)

    let requestInterceptorWrapper = function(r) {
      let mutatedRequest = requestInterceptor.apply(this, [r])
      let parsedMutatedRequest = fn.buildRequest(parsedRequest)
      specActions.setMutatedRequest(req.pathName, req.method, parsedMutatedRequest)
      let requestInterceptorWrapper = requestInterceptorWrapper
      let responseInterceptor = responseInterceptor
      // track duration of request
      const startTime = Date.now()
      fn.execute(req)
      .then(res => {
        res.duration = Date.now() -
startTime
      specActions.setResponse(req.pathName, req.method, res) })
            .catch(
              err =>
                specActions.setResponse(req.pathName, req.method, {
                  error: true, err: serializeError(err)
                })
            )
      }
    )

    // I'm using extras as a way to inject properties into the final, `execute` method - It's not great. Anyone have a
    // better idea? @ponelat
    export const execute = ( { path, method, ...extras }={ } ) => (system) => {
      let { fn:{fetch}, specSelectors, specActions } = system
      let spec = specSelectors.specJsonWithResolvedSubtrees().toJS()
      let requestContentType = specSelectors.contentTypeValues([path, method]).toJS()
      let parameters = specSelectors.parameterValues([path, method]).toJS()

      return specActions.executeRequest({
        ...extras,
        fetch, spec, pathName: path, method, parameters,
        requestContentType, scheme, responseContentType })
    }

    export function clearResponse (path, method) {
      return {
        type: CLEAR_RESPONSE,
        payload:{ path, method }
      }
    }

    export function clearRequest (path, method) {
      return {
        type: CLEAR_REQUEST,
        payload:{ path, method }
      }
    }

    export function setScheme (scheme, path, method) {
      return {
        type: SET_SCHEME,
        payload: { scheme, path, method }
      }
    }
```javascript
var match = protocolre.exec(address);

if (match) {
  slashes: !!match[2],
  rest: match[3]
} else {
  url.protocol = '',
  slashes: false,
  rest: address
}

if (finaldestination.slashes === undefined) {
  finaldestination.slashes = slashes.test(loc.href);
}

for (key in loc) {
  if (key in ignore) continue;
  finaldestination[key] = loc[key];
}

if (typeof finaldestination === 'object') {
  for (key in ignore) delete finaldestination[key];
}

if ('string' === typeof finaldestination) {
  finaldestination = new Url(finaldestination, {});
}

return finaldestination;
}

/**
 * Resolve a relative URL path.
 *
 * @param {Object|String} location Location defaults for relative paths.
 * @param {Boolean|Function} parser Parser for the query string.
 * @return {Object|String} Resolved relative URL path.
 * @private
 */
function resolveProtocol(address) {
  var match = protocolre.exec(address);

  return {
    slashes: !!match[2],
    rest: match[3]
  };
}

/**
 * Resolve path information from a URL with/without double slash ("//").
 *
 * @param {String} address URL we want to extract from.
 * @return {ProtocolExtract} Extracted information.
 * @private
 */
function extractProtocol(address) {
  var match = protocolre.exec(address);

  return {
    slashes: !!match[2],
    rest: match[3]
  };
}

/**
 * The actual URL instance. Instead of returning an object
 * we've opted-in to create an actual constructor as it's much more memory efficient and faster and it pleases
 * my OCD.
 *
 * It is worth noting that we should not use `URL` as class name to prevent confusion with the
 * global URL instance that got introduced in browsers.
 */
function Url(address, location, parser) {
  var relative, extracted, parse,
      instructions = rules.slice(),
      type = typeof location
    , url = this
    , i = 0;

  // Extract protocol information before running the instructions.
  // The following if statements allows this module two have compatibility with
  // 2 different API's // 1. Node.js's `url.parse` api which accepts a URL, object
  // arguments. The supplied object will be used as default values / fall-back
  // for relative paths. // 2. The `URL` interface of the browser which accepts a URL, object as
  // arguments. The supplied object will be used as default values / fall-back
  // for relative paths. // iii. Node.js // When the authority component is absent
  // The authority component is present
  // The URL starts with a path // component. // If (extracted.slashes) instructions[3] = [/(.*)/,
  // 'pathname'];
  // for (: i < instructions.length; i++) {
  // instruction = instructions[i];
  // if (typeof instruction === 'function') {
  // address = instruction(address);
  // continue;
  // }
  // parse = instruction[0];
  // key = instruction[1];
  // if (parse !== parse) {
  // url[key] = address;
  // } else if (string === typeof parse) {
  // if (~index = address.indexOf(\(--\))) {
  // url[key] = address.slice(index + instruction[2]);
  // } else {
  // url[key] = address.slice(index);
  // url = address.slice(0, index);
  // } }
  // }
  // }
  // Also parse the supplied query string into an object. If we're supplied
  // with a custom parser as function use that instead of the default build-in // parser.
  // If the URL is relative, resolve the pathname against the base URL.
  // if (""}
void 0;
if ((EventPluginRegistry.plugins[pluginIndex]) {
  continue;  
}
  pluginModule.extractEvents ?
process.env.NODE_ENV !== 'production' ? invariant(false, 'EventPluginRegistry: Event plugins must implement an 
`extractEvents` method, but `%s` does not.', pluginName) : _prodInvariant('97', pluginName) : void 0;

EventPluginRegistry.plugins[pluginIndex] = pluginModule;
var publishedEvents = pluginModule.eventTypes;
for (var eventName in publishedEvents) {
  publishEventForPlugin(publishedEvents[eventName], pluginModule, eventName) ?
process.env.NODE_ENV !== 'production' ? invariant(false, 'EventPluginRegistry: Failed to publish event `%s` for plugin `%s`. EventPluginRegistry.eventNameDispatchConfigs.hasOwnProperty(eventName) : _prodInvariant('98', eventName, pluginName) : void 0;

  EventPluginRegistry.plugins[pluginIndex] = pluginModule;
  var publishedEvents = pluginModule.eventTypes;
  for (var eventName in publishedEvents) {
    !publishEventForPlugin(publishedEvents[eventName], pluginModule, eventName) ?
process.env.NODE_ENV !== 'production' ? invariant(false, 'EventPluginRegistry: Failed to publish event `%s` for plugin `%s`.', eventName, pluginName) : _prodInvariant('98', eventName, pluginName) : void 0;

    pluginModule.eventTypes[eventName].dependencies = pluginModule.eventTypes[eventName].dependencies || {};
    var pluginDependencies = pluginModule.eventTypes[eventName].dependencies;

    EventPluginRegistry.eventNameDispatchConfigs[eventName] = dispatchConfig;
    for (var phaseName in dispatchConfig.phasedRegistrationNames) {
      publishRegistrationName(phasedRegistrationName, pluginModule, eventName);
    }
  }
}

/**
 * Publishes a registration name that is 
 * used to identify dispatched events and
 * can be used with `EventPluginHub.putListener` to register listeners.
 *
 * @param {string} registrationName Registration name to add.
 * @param {object} PluginModule Plugin 
 * publishing the event.
 * @private
 */
function publishRegistrationName(registrationName, pluginModule, eventName) {
  !!EventPluginRegistry.registrationNameModules[registrationName] ? process.env.NODE_ENV !== 'production' ? invariant(false, 'EventPluginHub: More than one plugin attempted to publish the same registration name, `%s`.', registrationName) : _prodInvariant('100', registrationName) : void 0;

  EventPluginRegistry.registrationNameModules[registrationName] = pluginModule;

  EventPluginRegistry.registrationNameDependencies[registrationName] = pluginModule.eventTypes[eventName].dependencies;

  if (process.env.NODE_ENV !== 'production') {
    var lowerCasedName = registrationName.toLowerCase();
    EventPluginRegistry.possibleRegistrationNames[lowerCasedName] = registrationName;
    if (lowerCasedName === 'onDoubleClick') {
      EventPluginRegistry.possibleRegistrationNames.ondblclick = registrationName;
    }
  }
}

/**
 * Registers plugins so that they can extract and dispatch events.
 *
 * @see 
 * {EventPluginHub}
 */
var EventPluginRegistry = {
  /**
   * Ordered list of injected plugins.
   */
  plugins: [],

  /**
   * Mapping from event name to dispatch config
   */
  eventNameDispatchConfigs: {},

  /**
   * Mapping 
   * from registration name to plugin module
   */
  registrationNameModules: {},

  /**
   * Mapping 
   * from registration name to event name
   */
  registrationNameDependencies: {},

  /**
   * Mapping 
   * from lowercase registration names to the properly cased version,
   * used in the case of missing event handler names. 
   * only in __DEV__
   */
  possibleRegistrationNames: {},

  // Trust the developer to only use
  possibleRegistrationNames in __DEV__

  /**
   * Injects an ordering of plugins (by plugin name). This allows the 
   * ordering to be decoupled from injection of the actual plugins so that ordering is 
   * always deterministic regardless of packaging, on-the-fly injection, etc.
   */
  injectEventPluginOrder: function (injectedEventPluginOrder) {
    if (injectedEventPluginOrder) {
      // Clone the ordering so it cannot be dynamically mutated.
      } else {
        throw new Error('You may not provide an ordering to EventPluginRegistry.injectEventPluginOrder under __DEV__
        since you are running in a mixed environment');
      }
    }
}

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eventPluginOrder = Array.prototype.slice.call(injectedEventPluginOrder); recomputePluginOrdering();

/**
 * Injects plugins to be used by `EventPluginHub`. The plugin names must be
 * in the ordering injected by `injectEventPluginOrder`. Plugins can be injected as part of page initialization or on-the-fly.
 */

var injectEventPluginsByName = function (injectedNamesToPlugins) {
  var isOrderingDirty = false;
  for (var pluginName in injectedNamesToPlugins) {
    if (!injectedNamesToPlugins.hasOwnProperty(pluginName)) {
      continue;
    }
    var pluginModule = injectedNamesToPlugins[pluginName];
    if (!namesToPlugins.hasOwnProperty(pluginName) || namesToPlugins[pluginName] !== pluginModule) {
      if (process.env.NODE_ENV !== 'production') ? invariant(false, 'EventPluginRegistry: Cannot inject two different event plugins using the same name, `%s`.', pluginName) : _prodInvariant('102', pluginName);
      namesToPlugins[pluginName] = pluginModule;
      isOrderingDirty = true;
    }
  }
  if (isOrderingDirty) {
    recomputePluginOrdering();
  }

  return EventPluginRegistry.registrationNameModules[dispatchConfig.registrationName] || null;
}

if (dispatchConfig.phasedRegistrationNames !== undefined) {
  var phasedRegistrationNames = dispatchConfig.phasedRegistrationNames;
  for (var phase in phasedRegistrationNames) {
    if (!phasedRegistrationNames.hasOwnProperty(phase)) {
      continue;
    }
    var pluginModule = EventPluginRegistry.registrationNameModules[phasedRegistrationNames[phase]];
    if (pluginModule) {
      return pluginModule;
    }
  }
}

var _resetEventPlugins = function () {
  eventPluginOrder = null;
  for (var pluginName in namesToPlugins) {
    if (namesToPlugins.hasOwnProperty(pluginName)) {
      delete namesToPlugins[pluginName];
    }
  }
  EventPluginRegistry.plugins.length = 0;
  var eventNameDispatchConfigs = EventPluginRegistry.eventNameDispatchConfigs;
  for (var eventName in eventNameDispatchConfigs) {
    if (eventNameDispatchConfigs.hasOwnProperty(eventName)) {
      delete eventNameDispatchConfigs[eventName];
    }
  }
  var registrationNameModules = EventPluginRegistry.registrationNameModules;
  for (var registrationName in registrationNameModules) {
    if (registrationNameModules.hasOwnProperty(registrationName)) {
      delete registrationNameModules[registrationName];
    }
  }

  if (process.env.NODE_ENV !== 'production') {
    var possibleRegistrationNames = EventPluginRegistry.possibleRegistrationNames;
    for (var lowerCasedName in possibleRegistrationNames) {
      delete possibleRegistrationNames[lowerCasedName];
    }
  }

  var module_exports = EventPluginRegistry.jsan/\\//WEBPACK FOOTER\\/..\node_modules\react-dom\EventPluginRegistry.jsan/\\//module id = 213\\/module chunks = 0\\,/\\/*/ * Copyright (c) 2013-present, Facebook, Inc.
*/

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warning(Injected && Injected.isAncestor && Injected.getLowestCommonAncestor,
'EventPluginUtils.injection.injectTreeTraversal(...): Injected ' + 'module is missing isAncestor or
getLowestCommonAncestor.') : void 0;\n }\n }\n};\n\nfunction isEndish(topLevelType) {\n return topLevelType
=== 'topMouseUp' || topLevelType === 'topTouchEnd' || topLevelType === 'topTouchCancel';\n}\n\nfunction
isMoveish(topLevelType) {\n return topLevelType === 'topMouseMove' || topLevelType ===
'topTouchMove';\n}\nfunction isStartish(topLevelType) {\n return topLevelType === 'topMouseDown' ||
topLevelType === 'topTouchStart';\n}\n\nvar validateEventDispatches;\nif (process.env.NODE_ENV !==
'production') {\n validateEventDispatches = function (event) {\n var dispatchListeners =
event._dispatchListeners;\n var dispatchInstances = event._dispatchInstances;\n\n var listenersIsArr =
Array.isArray(dispatchListeners);\n var listenersLen = listenersIsArr ? dispatchListeners.length : dispatchListeners
? 1 : 0;\n\n var instancesIsArr = Array.isArray(dispatchInstances);\n var instancesLen = instancesIsArr ?
dispatchInstances.length : dispatchInstances ? 1 : 0;\n\n process.env.NODE_ENV !== 'production' ?
warning(instancesIsArr === listenersIsArr && instancesLen === listenersLen, 'EventPluginUtils: Invalid `event`.') :
void 0;\n };\n}\n\n/**\n * Dispatch the event to the listener.\n * @param {SyntheticEvent} event SyntheticEvent to
handle\n * @param {boolean} simulated If the event is simulated (changes exn behavior)\n * @param {function}
listener Application-level callback\n * @param {*} inst Internal component instance\n */\nfunction
executeDispatch(event, simulated, listener, inst) {\n var type = event.type || 'unknown-event';\n event.currentTarget
= EventPluginUtils.getNodeFromInstance(inst);\n if (simulated) {\n
ReactErrorUtils.invokeGuardedCallbackWithCatch(type, listener, event);\n } else {\n
ReactErrorUtils.invokeGuardedCallback(type, listener, event);\n }\n event.currentTarget = null;\n}\n\n/**\n *
Standard/simple iteration through an event's collected dispatches.\n */\nfunction executeDispatchesInOrder(event,
simulated) {\n var dispatchListeners = event._dispatchListeners;\n var dispatchInstances =
event._dispatchInstances;\n if (process.env.NODE_ENV !== 'production') {\n validateEventDispatches(event);\n
}\n if (Array.isArray(dispatchListeners)) {\n for (var i = 0; i < dispatchListeners.length; i++) {\n
if
(event.isPropagationStopped()) {\n
break;\n
}\n
// Listeners and Instances are two parallel arrays that are
always in sync.\n
executeDispatch(event, simulated, dispatchListeners[i], dispatchInstances[i]);\n }\n } else if
(dispatchListeners) {\n executeDispatch(event, simulated, dispatchListeners, dispatchInstances);\n }\n
event._dispatchListeners = null;\n event._dispatchInstances = null;\n}\n\n/**\n * Standard/simple iteration through
an event's collected dispatches, but stops\n * at the first dispatch execution returning true, and returns that id.\n *\n *
@return {?string} id of the first dispatch execution who's listener returns\n * true, or null if no listener returned
true.\n */\nfunction executeDispatchesInOrderStopAtTrueImpl(event) {\n var dispatchListeners =
event._dispatchListeners;\n var dispatchInstances = event._dispatchInstances;\n if (process.env.NODE_ENV !==
'production') {\n validateEventDispatches(event);\n }\n if (Array.isArray(dispatchListeners)) {\n for (var i = 0; i
< dispatchListeners.length; i++) {\n
if (event.isPropagationStopped()) {\n
break;\n
}\n
// Listeners and
Instances are two parallel arrays that are always in sync.\n
if (dispatchListeners[i](event, dispatchInstances[i]))
{\n
return dispatchInstances[i];\n
}\n }\n } else if (dispatchListeners) {\n if (dispatchListeners(event,
dispatchInstances)) {\n
return dispatchInstances;\n }\n }\n return null;\n}\n\n/**\n * @see
executeDispatchesInOrderStopAtTrueImpl\n */\nfunction executeDispatchesInOrderStopAtTrue(event) {\n var ret
= executeDispatchesInOrderStopAtTrueImpl(event);\n event._dispatchInstances = null;\n event._dispatchListeners
= null;\n return ret;\n}\n\n/**\n * Execution of a \"direct\" dispatch - there must be at most one dispatch\n *
accumulated on the event or it is considered an error. It doesn't really make\n * sense for an event with multiple
dispatches (bubbled) to keep track of the\n * return values at each dispatch execution, but it does tend to make sense
when\n * dealing with \"direct\" dispatches.\n *\n * @return {*} The return value of executing the single dispatch.\n
*/\nfunction executeDirectDispatch(event) {\n if (process.env.NODE_ENV !== 'production') {\n
validateEventDispatches(event);\n }\n var dispatchListener = event._dispatchListeners;\n var dispatchInstance =
event._dispatchInstances;\n !!Array.isArray(dispatchListener) ? process.env.NODE_ENV !== 'production' ?
invariant(false, 'executeDirectDispatch(...): Invalid `event`.') : _prodInvariant('103') : void 0;\n event.currentTarget
= dispatchListener ? EventPluginUtils.getNodeFromInstance(dispatchInstance) : null;\n var res = dispatchListener ?

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dispatchListener(event) : null;

          event.currentTarget = null;
          event._dispatchListeners = null;
          event._dispatchInstances = null;
          return res;
        }

/**
 * @param {SyntheticEvent} event
 * @return {boolean}
 * True iff number of dispatches accumulated is greater than 0.
 */
function hasDispatches(event) {
  return !!event._dispatchListeners;
}

/**
 * General utilities that are useful in creating custom Event Plugins.
 */
var EventPluginUtils = {
  isEndish: isEndish,
  isMoveish: isMoveish,
  isStartish: isStartish,

  executeDirectDispatch: executeDirectDispatch,
  executeDispatchesInOrder: executeDispatchesInOrder,
  executeDispatchesInOrderStopAtTrue: executeDispatchesInOrderStopAtTrue,
  hasDispatches: hasDispatches,

  getInstanceFromNode: function (node) {
    return ComponentTree.getInstanceFromNode(node);
  },

  getNodeFromInstance: function (node) {
    return ComponentTree.getNodeFromInstance(node);
  },

  isAncestor: function (a, b) {
    return TreeTraversal.isAncestor(a, b);
  },

  getLowestCommonAncestor: function (a, b) {
    return TreeTraversal.getLowestCommonAncestor(a, b);
  },

  getParentInstance: function (inst) {
    return TreeTraversal.getParentInstance(inst);
  },

  traverseTwoPhase: function (target, fn, arg) {
    return TreeTraversal.traverseTwoPhase(target, fn, arg);
  },

  traverseEnterLeave: function (from, to, fn, argFrom, argTo) {
    return TreeTraversal.traverseEnterLeave(from, to, fn, argFrom, argTo);
  },

  injection: injection
};

module.exports = EventPluginUtils;

//////////////////
// WEBPACK FOOTER
// module id = 214
// module chunks = 0
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root
 * directory of this source tree.
 *
 */

'use strict';

var caughtError = null;

/**
 * Call a function while guarding against errors that happens within it.
 * @param {String} name
 * @param {Function} func
 * @param {*} a First argument
 * @param {*} b Second argument
 */
function invokeGuardedCallback(name, func, a) {
  try {
    func(a);
  } catch (x) {
    if (caughtError === null) {
      caughtError = x;
    }
  }
}

var ReactErrorUtils = {
  invokeGuardedCallback: invokeGuardedCallback,

  /**
   * Invoked by ReactTestUtils.Simulate so that any errors thrown by the event
   * handler are sure to be rethrown by rethrowCaughtError.
   */
  invokeGuardedCallbackWithCatch: invokeGuardedCallback,

  /**
   * During execution of guarded functions we will capture the first error which
   * we will rethrow to be handled by the top level event handler.
   */
  rethrowCaughtError: function () {
    if (caughtError) {
      var error = caughtError;
      caughtError = null;
      throw error;
    }
  }
};

if (process.env.NODE_ENV !== 'production') {
  /**
   * To help development we can get better devtools integration by simulating
   * a real browser event.
   */
  if (typeof window !== 'undefined' && typeof window.dispatchEvent === 'function' && typeof document !== 'undefined' && typeof document.createEvent === 'function') {
    var fakeNode = document.createElement('react');
    ReactErrorUtils.invokeGuardedCallback = function (name, func, a) {
      var boundFunc = function () {
        func(a);
      };
      var evtType = 'react-' + name;
      var evt = document.createEvent('Event');
      evt.initEvent(evtType, false, false);
      fakeNode.addEventListener(evtType, boundFunc, false);
      fakeNode.dispatchEvent(evt);
    };
  }
}

module.exports = ReactErrorUtils;

//////////////////
// WEBPACK FOOTER
// module id = 215
// module chunks = 0
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root
 * directory of this source tree.
 *
 */

'use strict';

/**
 * Gets the target node from a native browser event by accounting for
 * inconsistencies in browser DOM APIs.
 * @param {object} nativeEvent Native browser event.
 * @return [DOMEventTarget] Target node.
 */

function getEventTarget(nativeEvent) {
  var target = nativeEvent.srcElement || nativeEvent.target;
  var err = null;
  if (err) {
    throw err;
  }
  return target;
}

module.exports = getEventTarget;


//////////////////
// WEBPACK FOOTER
// module id = 216
// module chunks = 0
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 */
found in the
LICENSE file in the root directory of this source tree.

ExecutionEnvironment = require('fbjs/lib/ExecutionEnvironment');

var useHasFeature = document.implementation &&
  document.implementation.hasFeature &&
  // always returns true in newer browsers as per the standard.
  // @see http://dom.spec.whatwg.org/#dom-domimplementation-hasfeature
  document.implementation.hasFeature("", ")

/*
 * Check if an event is supported in the current execution environment.

! * NOTE: This will not work correctly for non-generic events such as `change`, `reset`, `load`, `error`, and `select`.

! * Borrows from Modernizr.

! * @param {string} eventNameSuffix Event name, e.g. `\click`.
! * @param {boolean} capture True if the capture phase is supported.
! * @return {boolean} True if the event is supported.

@internal

* @license Modernizr 3.0.0pre (Custom Build) | MIT

function isEventSupported(eventNameSuffix, capture) {
  if (!ExecutionEnvironment.canUseDOM || capture &&
    !('addEventListener' in document)) {
    return false;
  }
  var eventName = 'on' + eventNameSuffix;
  var isSupported = eventName in document;
  if (!isSupported) {
    var element = document.createElement('div');
    element.setAttribute(eventName, 'return;');
    isSupported = typeof element[eventName] === 'function';
  }
  return isSupported &&
  !('wheel' in document.implementation)

  return true;
}

function modifierStateGetter(keyArg) {
  var syntheticEvent = this;
  var nativeEvent = syntheticEvent.nativeEvent;
  if (nativeEvent.getModifierState) {
    return nativeEvent.getModifierState(keyArg);
  }
  var keyProp = modifierKeyToProp[keyArg];
  return keyProp ?
    !!nativeEvent[keyProp] : false;
}

_getEventModifierState = createMicrosoftUnsafeLocalFunction(function (parentNode, childNode, referenceNode) {
  DOMLazyTree.insertTreeBefore(parentNode, childTree, referenceNode);
});

function moveChild(parentNode, childNode, referenceNode) {
  if (Array.isArray(childNode)) {
    moveDelimitedText(parentNode, childNode[0], childNode[1], referenceNode);
  } else {
    insertChildAt(parentNode, childNode, referenceNode);
  }
function removeChild(parentNode, childNode) {
  if (Array.isArray(childNode)) {
    var closingComment = childNode[1];
    childNode = childNode[0];
    removeDelimitedText(parentNode, childNode, closingComment);
    parentNode.removeChild(closingComment);
  }
  parentNode.removeChild(childNode);
}

function moveDelimitedText(parentNode, openingComment, closingComment, referenceNode) {
  var node = openingComment;
  while (true) {
    var nextNode = node.nextSibling;
    insertChildAt(parentNode, node, referenceNode);
    if (node === closingComment) {
      break;
    }
    node = nextNode;
  }
}

function removeDelimitedText(parentNode, startNode, closingComment) {
  while (true) {
    var node = startNode.nextSibling;
    if (node === closingComment) {
      // The closing comment is removed by ReactMultiChild.
      break;
    } else {
      parentNode.removeChild(node);
    }
    removeDelimitedText(parentNode, nodeAfterComment, closingComment);
  }
}

function replaceDelimitedText(openingComment, closingComment, stringText) {
  var parentNode = openingComment.parentNode;
  var nodeAfterComment = openingComment.nextSibling;
  if (nodeAfterComment === closingComment) {
    // There are no text nodes between the opening and closing comments; insert
    // a new one if stringText isn't empty.
    if (stringText) {
      insertChildAt(parentNode, document.createTextNode(stringText), nodeAfterComment);
    } else {
      removeDelimitedText(parentNode, openingComment, closingComment);
    }
  } else {
    if (stringText) {
      // Set the text content of the first node after the opening comment, and
      // remove all following nodes up until the closing comment.
      setTextContent(nodeAfterComment, stringText);
      removeDelimitedText(parentNode, nodeAfterComment, closingComment);
    } else {
      removeDelimitedText(parentNode, openingComment, closingComment);
    }
  }

  if (process.env.NODE_ENV !== 'production') {
    ReactInstrumentation.debugTool.onHostOperation({
      instanceID: ReactDOMComponentTree.getInstanceFromNode(openingComment)._debugID,
      type: 'replace text',
      payload: stringText
    });
  }
}

/**
 * Operations for updating with
 * DOM children.
 */
var DOMChildrenOperations = {
  dangerouslyReplaceNodeWithMarkup: dangerouslyReplaceNodeWithMarkup,

  replaceDelimitedText: replaceDelimitedText,

  /**
   * Updates a component's children by processing a series of updates. The
   * update configurations are each expected to have a `parentNode` property.
   *
   * @param {array<object>} updates List of update configurations.
   * @internal
   */
  processUpdates: function (parentNode, updates) {
    if (process.env.NODE_ENV !== 'production') {
      var parentNodeDebugID = ReactDOMComponentTree.getInstanceFromNode(parentNode)._debugID;
    }

    for (var k = 0; k < updates.length; k++) {
      var update = updates[k];
      switch (update.type) {
        case 'INSERT_MARKUP':
          insertLazyTreeChildAt(parentNode, update.content, getNodeAfter(parentNode, update.afterNode));
          if (process.env.NODE_ENV !== 'production') {
            ReactInstrumentation.debugTool.onHostOperation({
              instanceID: parentNodeDebugID,
              type: 'insert child',
              payload: update.content.toString()
            });
          }
          break;
        case 'MOVE_EXISTING':
          moveChild(parentNode, update.fromNode, getNodeAfter(parentNode, update.afterNode));
          if (process.env.NODE_ENV !== 'production') {
            ReactInstrumentation.debugTool.onHostOperation({
              instanceID: parentNodeDebugID,
              type: 'move child',
              payload: update.fromIndex.toString() + ' to ' + update.toIndex.toString()
            });
          }
          break;
        case 'SET_MARKUP':
          setInnerHTML(parentNode, update.content);
          if (process.env.NODE_ENV !== 'production') {
            ReactInstrumentation.debugTool.onHostOperation({
              instanceID: parentNodeDebugID,
              type: 'set inner HTML',
              payload: update.content.toString()
            });
          }
          break;
        case 'INSERT_MARKUP':
          insertLazyTreeChildAt(parentNode, update.content, getAfterNode(parentNode, update.afterNode));
          if (process.env.NODE_ENV !== 'production') {
            ReactInstrumentation.debugTool.onHostOperation({
              instanceID: parentNodeDebugID,
              type: 'insert child',
              payload: update.content.toString()
            });
          }
          break;
        case 'MOVE_EXISTING':
          moveChild(parentNode, update.fromNode, getAfterNode(parentNode, update.afterNode));
          if (process.env.NODE_ENV !== 'production') {
            ReactInstrumentation.debugTool.onHostOperation({
              instanceID: parentNodeDebugID,
              type: 'move child',
              payload: update.fromIndex.toString(),
              toIndex: update.toIndex.toString()
            });
          }
          break;
        case 'SET_MARKUP':
          setInnerHTML(parentNode, update.content);
          if (process.env.NODE_ENV !== 'production') {
            ReactInstrumentation.debugTool.onHostOperation({
              instanceID: parentNodeDebugID,
              type: 'set inner HTML',
              payload: update.content.toString()
            });
          }
          break;
        case 'REPLACED redundantly:
          // If the component has no children, this
          // case is a no-op.
          break;
        case 'DELETE':
          removeChild(parentNode, childNode);
          if (process.env.NODE_ENV !== 'production') {
            ReactInstrumentation.debugTool.onHostOperation({
              instanceID: parentNodeDebugID,
              type: 'remove child',
              payload: childNode
            });
          }
          break;
      }
    }
  }

  // Updates a component's children by processing a series of updates. The
  // update configurations are each expected to have a `parentNode` property.
  // The `setChildrenNeedUpdate` flag is used to determine whether
  // the component needs re-renders.
  // *
  // @param {array<object>} updates List of update configurations.
  // @param {boolean} setChildrenNeedUpdate Should the component request
  // re-renders?
  // *
  // @internal
  // *
  // @returns {boolean} Whether this update should result in re-renders.
  // *
  // @internal
  // *
  // @returns {boolean} Whether this update should result in re-renders.
  // *
  // @internal
  // *
  // @returns {boolean} Whether this update should result in re-renders.
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  // @returns {boolean} Whether this update should result in re-renders.
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  // @returns {boolean} Whether this update should result in re-renders.
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  // @returns {boolean} Whether this update should result in re-renders.
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  // @internal
  // *
  // @returns {boolean} Whether this update should result in re-renders.
  // *
  // @internal
  // *
  // @returns {boolean} Whether this update should result in re-renders.
`DOMNodeOperations.map
_handler

`_assertSingleLink(inputProps) {
  _assertValueLink(inputProps);
  _assertCheckedLink(inputProps);
  if (inputProps.value == null && inputProps.onChange == null) {
    return null;
  } else {
    return inputProps.valueLink;
  }
}

propTypes = {
  value: function (props, propName, componentName) {
    if (!props[propName] || hasReadOnlyValue[props.type] || props.onChange || props.readOnly || props.disabled) {
      return null;
    }
    return new Error('You provided a `value` prop to a form field without an `onChange` handler. This will render a read-only field. If the field should be mutable use `defaultValue`. Otherwise, set either `readOnly` or `disabled`. The form element `input` does not currently flow down `disabled` and `readOnly` properties to `textarea` and `select` elements.');</pre>

</body></html>
```javascript
getDeclarationErrorAddendum(owner) { if (owner) { var name = owner.getName(); } if (name) { return `Check the render method of ‘+ name + ‘;` } } return ‘Unassigned *’

var LinkedValueUtils = { checkPropTypes: function (tagName, props, owner) { for (var propName in propTypes) { if (propTypes.hasOwnProperty(propName)) { var error = propTypes[propName](props, propName, tagName, ‘prop’, null, ReactPropTypesSecret); } if (error instanceof Error && !error.message in loggedTypeFailures) { // Only monitor this failure once because there tends to be a lot of the // same error. loggedTypeFailures[error.message] = true; var addendum = getDeclarationErrorAddendum(owner); process.env.NODE_ENV !== ‘production’ ? warning(false, ‘Failed form propType: %s%s’, error.message, addendum) : void 0; } } }, getValue: function (inputProps) { if (inputProps.valueLink) { _assertValueLink(inputProps); return inputProps.valueLink.value; } return inputProps.value; }, getChecked: function (inputProps) { if (inputProps.checkedLink) { _assertCheckedLink(inputProps); return inputProps.checkedLink.value; } return inputProps.checked; }, executeOnChange: function (inputProps, event) { if (inputProps.valueLink) { _assertValueLink(inputProps); return inputProps.valueLink.requestChange(event.target.value); } else if (inputProps.checkedLink) { _assertCheckedLink(inputProps); return inputProps.checkedLink.requestChange(event.target.checked); } } },

module.exports = LinkedValueUtils;
```
false;\n }\n\n var keysA = Object.keys(objA);\n var keysB = Object.keys(objB);\n\n if (keysA.length !==
keysB.length) {\n return false;\n }\n\n // Test for A's keys different from B.\n for (var i = 0; i < keysA.length;
i++) {\n if (!hasOwnProperty.call(objB, keysA[i]) || !is(objA[keysA[i]], objB[keysA[i]])) {\n
return false;\n
}\n }\n\n return true;\n}\n\nmodule.exports = shallowEqual;\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/fbjs/lib/shallowEqual.js\n// module id = 224\n// module chunks = 0","/**\n * Copyright (c) 2013present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in
the root directory of this source tree.\n *\n */\n\n'use strict';\n\n/**\n * Given a `prevElement` and `nextElement`,
determines if the existing\n * instance should be updated as opposed to being destroyed or replaced by a new\n *
instance. Both arguments are elements. This ensures that this logic can\n * operate on stateless trees without any
backing instance.\n *\n * @param {?object} prevElement\n * @param {?object} nextElement\n * @return
{boolean} True if the existing instance should be updated.\n * @protected\n */\n\nfunction
shouldUpdateReactComponent(prevElement, nextElement) {\n var prevEmpty = prevElement === null ||
prevElement === false;\n var nextEmpty = nextElement === null || nextElement === false;\n if (prevEmpty ||
nextEmpty) {\n return prevEmpty === nextEmpty;\n }\n\n var prevType = typeof prevElement;\n var nextType
= typeof nextElement;\n if (prevType === 'string' || prevType === 'number') {\n return nextType === 'string' ||
nextType === 'number';\n } else {\n return nextType === 'object' && prevElement.type === nextElement.type
&& prevElement.key === nextElement.key;\n }\n}\n\nmodule.exports =
shouldUpdateReactComponent;\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/reactdom/lib/shouldUpdateReactComponent.js\n// module id = 225\n// module chunks = 0","/**\n * Copyright (c) 2013present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in
the root directory of this source tree.\n *\n * \n */\n\n'use strict';\n\n/**\n * Escape and wrap key so it is safe to use
as a reactid\n *\n * @param {string} key to be escaped.\n * @return {string} the escaped key.\n */\n\nfunction
escape(key) {\n var escapeRegex = /[=:]/g;\n var escaperLookup = {\n '=': '=0',\n ':': '=2'\n };\n var
escapedString = ('' + key).replace(escapeRegex, function (match) {\n return escaperLookup[match];\n });\n\n
return '$' + escapedString;\n}\n\n/**\n * Unescape and unwrap key for human-readable display\n *\n * @param
{string} key to unescape.\n * @return {string} the unescaped key.\n */\nfunction unescape(key) {\n var
unescapeRegex = /(=0|=2)/g;\n var unescaperLookup = {\n '=0': '=',\n '=2': ':'\n };\n var keySubstring = key[0]
=== '.' && key[1] === '$' ? key.substring(2) : key.substring(1);\n\n return ('' +
keySubstring).replace(unescapeRegex, function (match) {\n return unescaperLookup[match];\n });\n}\n\nvar
KeyEscapeUtils = {\n escape: escape,\n unescape: unescape\n};\n\nmodule.exports =
KeyEscapeUtils;\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/reactdom/lib/KeyEscapeUtils.js\n// module id = 226\n// module chunks = 0","/**\n * Copyright (c) 2015-present,
Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root
directory of this source tree.\n *\n */\n\n'use strict';\n\nvar _prodInvariant = require('./reactProdInvariant');\n\nvar
ReactCurrentOwner = require('react/lib/ReactCurrentOwner');\nvar ReactInstanceMap =
require('./ReactInstanceMap');\nvar ReactInstrumentation = require('./ReactInstrumentation');\nvar ReactUpdates =
require('./ReactUpdates');\n\nvar invariant = require('fbjs/lib/invariant');\nvar warning =
require('fbjs/lib/warning');\n\nfunction enqueueUpdate(internalInstance) {\n
ReactUpdates.enqueueUpdate(internalInstance);\n}\n\nfunction formatUnexpectedArgument(arg) {\n var type =
typeof arg;\n if (type !== 'object') {\n return type;\n }\n var displayName = arg.constructor &&
arg.constructor.name || type;\n var keys = Object.keys(arg);\n if (keys.length > 0 && keys.length < 20) {\n return
displayName + ' (keys: ' + keys.join(', ') + ')';\n }\n return displayName;\n}\n\nfunction
getInternalInstanceReadyForUpdate(publicInstance, callerName) {\n var internalInstance =
ReactInstanceMap.get(publicInstance);\n if (!internalInstance) {\n if (process.env.NODE_ENV !== 'production')
{\n
var ctor = publicInstance.constructor;\n
// Only warn when we have a callerName. Otherwise we should be
silent.\n // We're probably calling from enqueueCallback. We don't want to warn\n
// there because we already
warned for the corresponding lifecycle method.\n
process.env.NODE_ENV !== 'production' ?
warning(!callerName, '%s(...): Can only update a mounted or mounting component. ' + 'This usually means you

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called %s() on an unmounted component. ‘+’This is a no-op. Please check the code for the %s component.’, callerName, callerName, ctor & & (ctor.displayName || ctor.name) || ‘ReactClass’): void 0;\n    return null;\n  }\n\n  if (process.env.NODE_ENV !== ‘production’): ReactUpdateQueue allows for state updates to be scheduled into a later\n  * reconciliation step.\n\n  warning(ReactCurrentOwner.current == null, ‘%s(...): Cannot update during an existing state transition (such as ‘+’ \n  ‘within ‘render’ or another component’s constructor). Render methods ‘+’ should be a pure function of props and \n  state; constructor ‘+’ side-effects are an anti-pattern, but can be moved to ‘+’ ‘componentWillMount’, callerName) : \n  void 0;\n\n  return internalInstance;\n\n  /**\n   * ReactUpdateQueue allows for state updates to be scheduled \n   * into a later reconciliation step.\n   * @param {ReactClass} publicInstance The instance we want to test.\n   * @return {null} \n   */\n\n  enqueueCallback: function (publicInstance, callback, callerName) {
    ReactUpdateQueue.validateCallback(callback, callerName);\n
    var internalInstance = getInternalInstanceReadyForUpdate(publicInstance);\n
    // Previously we would throw an error if we didn’t have an \n    // internalInstance\n    // instance. Since we want to make it a no-op instead, we mirror the same \n    // behavior we have in other enqueue* methods.\n    // We also need to ignore callbacks in \n    // enqueueUpdates.\n    if (!internalInstance) {
      return null;\n    }\n
    if (internalInstance._pendingCallbacks) {
      internalInstance._pendingCallbacks.push(callback);\n    } else {
      internalInstance._pendingCallbacks = [callback];\n    }\n    enqueueUpdate(internalInstance);\n\n    // Enqueue the callback.\n    \n    // componentWillMount. Either fix it or disallow doing so completely.\n    // favor of getInitialState. Alternatively, we can disallow\n    // componentWillMount during server-side rendering.\n\n    // enqueueCallback: function (internalInstance, callback) {\n    //   if (internalInstance._pendingCallbacks) {\n    //     \n    //     \n    //     \n    }\n\n    /**\n     * Forces an update. This should only be invoked when it is known \n     * with certainty that we are **not** in a DOM transaction.\n     * You may want to\n     * call this only when you know that some deeper aspect of the\n     * component’s state has changed but ‘setState’ was not\n     * called.\n     * This will not invoke ‘shouldComponentUpdate’, but it will invoke\n     * ‘componentWillUpdate’ and ‘componentDidUpdate’.\n     * @param {ReactClass} publicInstance The instance that should \n     * rerender.\n     * @internal\n     * @enque...
create($this, length) : IS_FILTER ? create($this, 0) : undefined;
var val, res;
for (;length > index; index++) if (NO_HOLES || index in self) { val = self[index]; res = f(val, index, O); } if (TYPE) { 
  if (IS_MAP) result[index] = res; // map
  else if (res) switch (TYPE) { 
    case 3: return true; // some
    case 5: return val; // find
    case 6: return index; // findIndex
    case 2: result.push(val); // filter
  } else if (IS_EVERY) return false; // every
}
return IS_FIND_INDEX ? -1 : IS_SOME || IS_EVERY ? IS_EVERY : result;
};

//////////////////
// WEBPACK FOOTER
// module.id = 234
// module.chunks = 0
// import parseUrl from "url-parse"
// import win from "core/window"
// import { btoa, buildFormData } from "core/utils"

export const SHOW_AUTH_POPUP = "show_popup"
export const AUTHORIZE = "authorize"
export const LOGOUT = "logout"
export const PRE_AUTHORIZE_OAUTH2 = "pre_authorize_oauth2"
export const AUTHORIZE_OAUTH2 = "authorize_oauth2"

const scopeSeparator = " "

export function showDefinitions(payload) {
  return {
    type: SHOW_AUTH_POPUP,
    payload: payload
  }
}

export function authorize(payload) {
  return {
    type: AUTHORIZE,
    payload: payload
  }
}

export function logout(payload) {
  return {
    type: LOGOUT,
    payload: payload
  }
}

export const preAuthorizeImplicit = (payload) => ( { authActions, errActions } ) => {
  let { auth , token, isValid } = payload
  let { schema, name } = auth
  let flow = schema.get("flow")

  // remove oauth2 property from window after redirect from authentication
  delete win.swaggerUIRedirectOauth2

  if ( flow !== "accessCode" && !isValid ) {
    errActions.newAuthErr( {
      authId: name,
      source: "auth",
      level: "warning",
      message: "Authorization may be unsafe, passed state was changed in server Passed state wasn't returned from auth server"
    })
  }

  if ( token.error ) {
    errActions.newAuthErr( {
      authId: name,
      source: "auth",
      level: "error",
      message: JSON.stringify(token)
    })
    return
  }

  authActions.authorizeOauth2({ auth, token })
}

export const authorizeOauth2 = (payload) => ( { authActions } ) => {
  let { schema, name, username, password, passwordType, clientId, clientSecret } = payload
  let form = {
    grant_type: "password",
    scope: auth.scopes.join(scopeSeparator),
    username,
    password
  }
  let query = {}
  let headers = {}

  switch (passwordType) {
    case "request-body":
      setClientIdAndSecret(form, clientId, clientSecret)
      break

    case "basic":
      headers.Authorization = "Basic " + btoa(clientId + ":" + clientSecret)
      break
    default:
      console.warn(`Warning: invalid passwordType ${passwordType} was passed, not including client id and secret`)
  }

  return authActions.authorizeRequest({ body: buildFormData(form), url: schema.get("tokenUrl"), name, headers, query, auth })
}

function setClientIdAndSecret(target, clientId, clientSecret) {
  if ( clientId ) {
    Object.assign(target, {client_id: clientId})
  }

  if ( clientSecret ) {
    Object.assign(target, {client_secret: clientSecret})
  }
}

export const authorizeApplication = (auth) => ( { authActions } ) => {
  let { schema, name, clientId, clientSecret } = auth
  let headers = { Authorization: "Basic " + btoa(clientId + ":" + clientSecret) }

  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, headers })
}

export const authorizeRequest = (data) => ( { fn, getConfigs, authActions, errActions, oas3Selectors, specSelectors, authSelectors } ) => {
  let { body, query={}, headers={}, name, url, auth } = data
  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, headers })
}
authSelectors.getConfigs()

let parsedUrl
if (specSelectors.isOAS3()) {
  parsedUrl = parseUrl(url, oas3Selectors.selectedServer(), true)
} else {
  parsedUrl = parseUrl(url, specSelectors.url(), true)
}

if(typeof additionalQueryStringParams === "object") {
  parsedUrl.query = Object.assign({}, parsedUrl.query, additionalQueryStringParams)
}

const fetchUrl = parsedUrl.toString()

let _headers = Object.assign({}, headers)

if (specSelectors.isOAS3()) {
}

if (errActions.newAuthErr({ authId: name, level: "error", source: "auth", message: response.statusText }) || !response.ok) {
  errActions.newAuthErr({ authId: name, level: "error", source: "auth", message: response.statusText })
}

if (error || parseError) {
  errActions.newAuthErr({ authId: name, level: "error", source: "auth", message: JSON.stringify(token) })
}

export function configureAuth(payload) {
  return {
    type: CONFIGURE_AUTH,
    payload: payload
  }
}

export function update(configName, configValue) {
  return {
    type: UPDATE_CONFIGS,
    payload: {
      [configName]: configValue
    }
  }
}

export function toggle(configName) {
  return {
    type: TOGGLE_CONFIGS,
    payload: configName
  }
}

export const loaded = () => () => {}
function (key) { return key < this.cache.length ? this.cache[key] : 0; }

module.exports = StateInline;


export const UPDATE_SELECTED_SERVER = "oas3_set_servers";
export const UPDATE_REQUEST_BODY_VALUE = "oas3_set_request_body_value";
export const UPDATE_ACTIVE_EXAMPLES_MEMBER = "oas3_set_active_examples_member";
export const UPDATE_REQUEST_CONTENT_TYPE = "oas3_set_request_content_type";
export const UPDATE_RESPONSE_CONTENT_TYPE = "oas3_set_response_content_type";
export const UPDATE_SERVER_VARIABLE_VALUE = "oas3_set_server_variable_value";

function setSelectedServer (selectedServerUrl, namespace) {
  return {
    type: UPDATE_SELECTED_SERVER,
    payload: {selectedServerUrl, namespace}
  }
}

function setRequestBodyValue ({ value, pathMethod }) {
  return {
    type: UPDATE_REQUEST_BODY_VALUE,
    payload: { value, pathMethod }
  }
}

function setActiveExamplesMember ({ name, pathMethod, contextType, contextName }) {
  return {
    type: UPDATE_ACTIVE_EXAMPLES_MEMBER,
    payload: { name, pathMethod, contextType, contextName }
  }
}

function setRequestContentType ({ value, pathMethod }) {
  return {
    type: UPDATE_REQUEST_CONTENT_TYPE,
    payload: { value, pathMethod }
  }
}

function setResponseContentType ({ value, path, method }) {
  return {
    type: UPDATE_RESPONSE_CONTENT_TYPE,
    payload: { value, path, method }
  }
}

function setServerVariableValue ({ server, namespace, key, val }) {
  return {
    type: UPDATE_SERVER_VARIABLE_VALUE,
    payload: { server, namespace, key, val }
  }
}


module.exports = function (done, value) {
  return {
    value: value, done: !!done
  }
};


module.exports = !require('./_descriptors') && !require('./_fails')(function () {
  return Object.defineProperty(require('./_dom-create')('div'), 'a', { get: function () { return 7; } }).a != 7;
});


var has = require('./_has');
var toIObject = require('./_to-iobject');
var arrayIndexOf = require('./_array-includes')(false);
var IE_PROTO = require('./_shared-key')('IE_PROTO');

module.exports = function (object, names) {
  var O = toIObject(object);
  var i = 0;
  var result = [];
  var key;
  for (key in O) if (key != IE_PROTO) has(O, key) && result.push(key);
  // Don't enum bug & hidden keys
  while (names.length > i) if (has(O, key = names[i++])) {
    ~arrayIndexOf(result, key) || result.push(key);
  }
  return result;
};


module.exports = require('./_global').document.
module.exports = document &
_document.documentElement;


module.exports = function (bitmap, value) {
  return {
    enumerable: !(bitmap & 1),
    configurable: !(bitmap & 2),
    writable: !(bitmap & 4),
    value: value
  }
};
Object methods by ES6 should accept primitives

```javascript
var $export = require('./_export');
var core = require('./_core');
var fails = require('./_fails');
module.exports = function (KEY, exec) {
  var fn = (core.Object || {})[KEY] || Object[KEY];
  var exp = {};
  exp[KEY] = exec(fn);
  $export($export.S + $export.F * fails(function () { fn(1); })),
  'Object', exp);
};

Object.isArray(argument) var cof = require('./_cof');
module.exports = Array.isArray || function isArray(arg) {
  return cof(arg) === 'Array';
};

Object.getOwnPropertyNames(O) var $keys = require('./_object-keys-internal');
var hiddenKeys = require('./_enum-bug-keys').concat('length', 'prototype');

exports.f = Object.getOwnPropertyNames || function getOwnPropertyNames(O) {
  return $keys(O, hiddenKeys);
};

Object.getOwnPropertyDescriptor(O, P) var toString = {}.toString;

module.exports = Array.isArray || function (arr) {
  return toString.call(arr) === '[object Array]';
};

Object.assign(target, source, ...)
var getKeys = require('./_object-keys');
var gOPS = require('./_object-gops');
var pIE = require('./_object-pie');
var toObject = require('./_to-object');
var IObject = require('./_iobject');

// should work with symbols and should have deterministic property order (V8 bug)
module.exports = !$assign || require('./_fails')(function () {
  var A = {};
  var B = {};
  var S = Symbol();
  var K = 'abcdefghijklmnopqrst';
  A[S] = 7;
  K.split('').forEach(function (k) { B[k] = k; });
  return $assign({}, A, S) !== 7 || Object.keys($assign({}, B)).join('') !== K;
}) ? function assign(target, source) {
  var T = toObject(target);
  var aLen = arguments.length;
  var index = 1;
  var getSymbols = gOPS.f;
  var isEnum = pIE.f;
  while (aLen > index) {
    var S = IObject(arguments[index++]);
    var keys = getSymbols ? getKeys(S).concat(getSymbols(S)) : getKeys(S);
    var length = keys.length;
    var j = 0;
    var key;
    while (length > j) if (isEnum.call(S, key = keys[j++]) || key in target)
      T[key] = S[key];
  } return T;
} : $assign;
```

Object.getOwnPropertyNames(O) var $keys = require('./_object-keys-internal');
var hiddenKeys = require('./_enum-bug-keys').concat('length', 'prototype');

exports.f = Object.getOwnPropertyNames || function getOwnPropertyNames(O) {
  return $keys(O, hiddenKeys);
};

Object.getOwnPropertyDescriptor(O, P) var toString = {}.toString;

module.exports = Array.isArray || function (arr) {
  return toString.call(arr) === '[object Array]';
};

Object.assign(target, source, ...)
var getKeys = require('./_object-keys');
var gOPS = require('./_object-gops');
var pIE = require('./_object-pie');
var toObject = require('./_to-object');
var IObject = require('./_iobject');

// should work with symbols and should have deterministic property order (V8 bug)
module.exports = !$assign || require('./_fails')(function () {
  var A = {};
  var B = {};
  var S = Symbol();
  var K = 'abcdefghijklmmnopqrstuvwxyz';
  A[S] = 7;
  K.split('').forEach(function (k) { B[k] = k; });
  return $assign({}, A, S) !== 7 || Object.keys($assign({}, B)).join('') !== K;
}) ? function assign(target, source) {
  var T = toObject(target);
  var aLen = arguments.length;
  var index = 1;
  var getSymbols = gOPS.f;
  var isEnum = pIE.f;
  while (aLen > index) {
    var S = IObject(arguments[index++]);
    var keys = getSymbols ? getKeys(S).concat(getSymbols(S)) : getKeys(S);
    var length = keys.length;
    var j = 0;
    var key;
    while (length > j) if (isEnum.call(S, key = keys[j++]) || key in target)
      T[key] = S[key];
  } return T;
} : $assign;

Object.getOwnPropertyDescriptor(O, P) var toString = {}.toString;

module.exports = Array.isArray || function (arr) {
  return toString.call(arr) === '[object Array]';
};

Object.assign(target, source, ...)
var getKeys = require('./_object-keys');
var gOPS = require('./_object-gops');
var pIE = require('./_object-pie');
var toObject = require('./_to-object');
var IObject = require('./_iobject');

// should work with symbols and should have deterministic property order (V8 bug)
module.exports = !$assign || require('./_fails')(function () {
  var A = {};
  var B = {};
  var S = Symbol();
  var K = 'abcdefghijklmmnopqrstuvwxyz';
  A[S] = 7;
  K.split('').forEach(function (k) { B[k] = k; });
  return $assign({}, A, S) !== 7 || Object.keys($assign({}, B)).join('') !== K;
}) ? function assign(target, source) {
  var T = toObject(target);
  var aLen = arguments.length;
  var index = 1;
  var getSymbols = gOPS.f;
  var isEnum = pIE.f;
  while (aLen > index) {
    var S = IObject(arguments[index++]);
    var keys = getSymbols ? getKeys(S).concat(getSymbols(S)) : getKeys(S);
    var length = keys.length;
    var j = 0;
    var key;
    while (length > j) if (isEnum.call(S, key = keys[j++]) || key in target)
      T[key] = S[key];
  } return T;
} : $assign;
batched together. You can provide an optional callback that will be executed when the call to setState is actually completed. When a function is provided to setState, it will be called at some point in the future (not synchronously). It will be called with the up to date component arguments (state, props, context). These values can be different from this because your function may be called after receiveProps but before shouldComponentUpdate, and this new state, props, and context will not yet be assigned to this.

When a function is provided to setState, it will be called at some point in the future (not synchronously). It will be called with the up to date component arguments (state, props, context). These values can be different from this because your function may be called after receiveProps but before shouldComponentUpdate, and this new state, props, and context will not yet be assigned to this.

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not this composite component is mounted.

@public

* @param {ReactClass} publicInstance The instance we want to test.
* @return {boolean} True if mounted, false otherwise.
* @protected
* @final

isMounted: function (publicInstance) {
  return false;
},

enqueueUpdate: function (publicInstance, callback) {
  forces an update. This should only be invoked when it is known with
  * @return {boolean} True if mounted, false otherwise.
  * @protected
  * @final
  */
function (publicInstance) {
  return false;
},

enqueueForceUpdate: function (publicInstance) {
  warnNoop(publicInstance, 'forceUpdate');
},

enqueueReplaceState: function (publicInstance, completeState) {
  warnNoop(publicInstance, 'replaceState');
},

isMounted: function (publicInstance) {
  return false;
},

enqueueSetState: function (publicInstance, partialState) {
  warnNoop(publicInstance, 'setState');
};

module.exports = ReactNoopUpdateQueue;

```
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 * 
 */

'use strict';

var canDefineProperty = false;
if (process.env.NODE_ENV !== 'production') {
  try {
    // $FlowFixMe
    Object.defineProperty({}, 'x', { get: function () {} });
    canDefineProperty = true;
  } catch (x) {
    // IE will fail on defineProperty
  }
}

module.exports = canDefineProperty;

```

```
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 */

'use strict';

var REACT_ELEMENT_TYPE = typeof Symbol === 'function' && Symbol['for'] && Symbol['for']('react.element') || 0xeac7;

module.exports = REACT_ELEMENT_TYPE;

```

```
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 * ReactElement Symbol.js
 */

'use strict';

// React 15.5 references this module, and assumes
// PropTypes are still callable in production. Therefore we re-export development-only version with all the
// 'prop-types' npm library, they will go through the
// 'index.js' entry point, and it will branch depending on the environment.

var canDefineProperty = require('./factoryWithTypeCheckers')(isValidElement) {
  try {
    // $FlowFixMe
    Object.defineProperty({}, 'x', { get: function () {} });
    canDefineProperty = true;
  } catch (x) {
    // IE will fail on defineProperty
  }
}

module.exports = function(isValidElement) {
  var throwOnDirectAccess = false;
  return factory(isValidElement, throwOnDirectAccess);
};

```

```
```
For any unknown actions, you must return the current state. If the current state is undefined, you must return the initial state. Do not reference these action types directly in your code.

The only way to change the data in the store is to call `dispatch()` on it. There should only be a single store in your app. To specify how different parts of the state tree respond to actions, you can combine several reducers into a single reducer function by using `combineReducer`. A function that returns the next state tree, given the current state tree and the action to handle. You may optionally specify initial state to hydrate the state from the server in universal apps, or to restore previously serialized user session.

The base implementation only supports plain object actions. If you want to dispatch a Promise, an Observable, a thunk, or something else, you need to wrap your store creating function into the corresponding middleware.

Caveats:

1. The subscriptions are snapshotted just before every `dispatch()` call. If you subscribe or unsubscribe while the listeners are being invoked, this will not have any effect on the `dispatch()` that is currently in progress. However, the next `dispatch()` call, whether nested or not, will use the more recent snapshot of the subscription list.

2. The listener should not expect to see all state changes, as the state in the store may potentially have changed. You may then call `getState()` to read the current state tree inside the callback.

You may call `dispatch()` from a change listener, with the following caveats:

- 1. The subscriptions are snapshotted just before every `dispatch()` call. If you subscribe or unsubscribe while the listeners are being invoked, this will not have any effect on the `dispatch()` that is currently in progress.

- However, the next `dispatch()` call, whether nested or not, will use the more recent snapshot of the subscription list.

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- However, the next `dispatch()` call, whether nested or not, will use the more recent snapshot of the subscription list.

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- The subscriptions are snapshotted just before every `dispatch()` call. If you subscribe or unsubscribe while the listeners are being invoked, this will not have any effect on the `dispatch()` that is currently in progress.

- However, the next `dispatch()` call, whether nested or not, will use the more recent snapshot of the subscription list.

- The listener should not expect to see all state changes, as the state in the store may potentially have changed. You may then call `getState()` to read the current state tree inside the callback. **Next state**

- The base implementation only supports plain object actions. If you want to dispatch a Promise, an Observable, a thunk, or something else, you need to wrap your store creating function into the corresponding middleware. For example, see the documentation for the `redux-thunk` package. Even the middleware will eventually dispatch plain object actions using this method.
Open Source Used In SDWan

```
* `replaceReducer` function: 

```
```
```javascript
function baseSlice(array, start, end) {
  var length = array.length,
      result = Array(Math.max(0, end - start + 1));

  if (start < 0) {
    start = Math.max(0, length + start);
  }

  if (end < 0) {
    end = Math.max(0, length + end);
  }

  length = start > end ? 0 : ((end - start) >>> 0);
  start >>>= 0;

  var result = Array(length);
  while (++index < length) {
    result[index] = array[index + start];
  }

  return result;
}

module.exports = baseSlice;

```
function isFunction(value) {
  if (!isObject(value)) {
    return false;
  }
  // The use of `Object#toString` avoids issues with the `typeof` operator
  // in Safari 9 which returns `object` for typed arrays and other constructors.
  var tag = getTag(value);
  return tag == funcTag || tag == genTag || tag == asyncTag || tag == proxyTag;
}

module.exports = isFunction;


module.exports = toSource;


function findIndex(array, predicate, fromIndex) {
  var length = array == null ? 0 : array.length,
      index = (fromIndex || 0) < 0 ? nativeMax(0, length + fromIndex) : fromIndex;

  while (length >= 0 && !(predicate.call(this, array[index], index, array))) {
    index += 1;
  }

  return index;
}

module.exports = findIndex;


function baseIsEqualDeep(value, other, bitmask, customizer, equalFunc, stack) {
  if (value === other) {
    return true;
  }
  if (value == null || other == null || !isObjectLike(value) && !isObjectLike(other)) {
    return value !== value && other !== other;
  }
  return baseIsEqualDeep(value, other, COMPARE_PARTIAL_FLAG | COMPARE_UNORDERED_FLAG, customizer, equalFunc, stack);
}

module.exports = baseIsEqualDeep;


var isObjectLike = require('./isObjectLike');

function isPartial(value, bitmask) {
  // No partial comparisons for arrays.
  if (!isArray(value) || bitmask & COMPARE_PARTIAL_FLAG) {
    return false;
  }
  // Formally,健者ip are not considered `partial` if they are `==` to a
  // `null` or `undefined` value (as per the spec), but they are
  // counted as `partial` if they are `===` to them.
  return isObjectLike(value) && !isPartial(Object(value));
}


function getTag(value) {
  if (value == null) {
    return nullTag;
  }
  var type = typeof value;
  if (type == 'function') {
    return funcTag;
  }
  if (type == 'object') {
    return isPartial(value, COMPARE_PARTIAL_FLAG) ? partialTag : objectTag;
  }
  return symbolTag;
}

module.exports = getTag;


function isNative(value) {
  if (value == null) {
    return false;
  }
  if (typeof(value) == 'function') {
    return isFunction(value);
  }
  return value !== value;
}

module.exports = isNative;


function isObject(value) {
  var type = typeof value;
  return type == 'object' && value != null;
}

module.exports = isObject;


function baseIsEqual(value, other) {
  return isObjectLike(other) && isObjectLike(value) ? baseIsEqualDeep(value, other) : value == other;
}

module.exports = baseIsEqual;


function isTypedArray(value) {
  return isObjectLike(value) && value.constructor.webkitIsTypedArray;
}

module.exports = isTypedArray;


function isArrayBuffer(value) {
  return isObjectLike(value) && value.constructor.webkitIsArrayBuffer;
}

module.exports = isArrayBuffer;


function getProto(value) {
  var result = value && value.constructor && value.constructor.prototype;
  return isObjectLike(result) ? getProto(result) : undefined;
}

module.exports = getProto;


function getTag(value) {
  var type = typeof value;
  return type == 'function' ? funcTag : type == 'object' ? objectTag : undefinedTag;
}

module.exports = getTag;


function isFunction(value) {
  return typeof value == 'function';
}

module.exports = isFunction;


function isObjectLike(value) {
  return value != null;
}

module.exports = isObjectLike;


function isNative(value) {
  return value == null ? false : value === value;
}

module.exports = isNative;


function isObject(value) {
  return value != null && typeof value == 'object';
}

module.exports = isObject;


function baseIsEqualDeep(value, other, bitmask, customizer, equalFunc, stack) {
  if (value === other) {
    return true;
  }
  if (value == null || other == null || !isObject(value) && !isObject(other)) {
    return value !== value && other !== other;
  }
  return baseIsEqualDeep(value, other, COMPARE_PARTIAL_FLAG | COMPARE_UNORDERED_FLAG, customizer, equalFunc, stack);
}

module.exports = baseIsEqualDeep;


function getTag(value) {
  var type = typeof value;
  return type == 'function' ? funcTag : type == 'object' ? objectTag : undefinedTag;
}

module.exports = getTag;


function isFunction(value) {
  return typeof value == 'function';
}

module.exports = isFunction;


function isObjectLike(value) {
  return value != null;
}

module.exports = isObjectLike;


function isNative(value) {
  return value == null ? false : value === value;
}

module.exports = isNative;


function isObject(value) {
  return value != null && typeof value == 'object';
}

module.exports = isObject;
Assume cyclic values are equal.

var stacked = stack.get(array); if (stacked && stack.get(other)) { return stacked == other; }

var index = -1,
    result = true,
    seen = stack.get(array);

stack.set(array, other);
stack.set(other, array);

// Ignore non-index properties.
while (++index < arrLength) {
    var arrValue = array[index],
        othValue = other[index];

    if (customizer) {
        var compared = isPartial
            ? customizer(othValue, arrValue, index, other, array, stack)
            : customizer(arrValue, othValue, index, array, other, stack);
    }
    if (compared !== undefined) {
        if (compared) {
            continue;
        }
        result = false;
        break;
    }
    // Recursively compare arrays (susceptible to call stack limits).
    if (seen) {
        if (!cacheHas(seen, othIndex) &&
            (arrValue === othValue ||
             equalFunc(arrValue, othValue, bitmask, customizer, stack))) {
            return true;
        }
    } else if (!(!arrValue &&
        equalFunc(othValue, arrValue, bitmask, customizer, stack) ||
        stack['delete'](array))) {
        return false;
    }
}

stack['delete'](array);
stack['delete'](other);
return result;

module.exports = equalArrays;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_equalArrays.js
// module id = 292
// module chunks = 0

/**
 * A specialized version of `_.some` for arrays without support for iteratee shorthands.
 *
 * @private
 * @param {Array} [array] The array to iterate over.
 * @param {Function} predicate The function invoked per iteration.
 * @returns {boolean} Returns `true` if any element passes the predicate check,
 *  else `false`.
 */
function arraySome(array, predicate) {
  var index = -1,
      length = array == null ? 0 : array.length;

  while (++index < length) {
    if (predicate(array[index], index, array)) {
      return true;
    }
  }
  return false;
}

module.exports = arraySome;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_arraySome.js
// module id = 293
// module chunks = 0

var Uint8Array = require('./_root');

/** Built-in value references. */
var Uint8Array = require('./_root');

/**
 * Creates an array of own enumerable property names and symbols of `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names and symbols.
 */
function getAllKeys(object) {
  return baseGetAllKeys(object, keys, getSymbols);
}

module.exports = getAllKeys;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_getAllKeys.js
// module id = 294
// module chunks = 0

var arrayPush = require('./_arrayPush'),
    isArray = require('./isArray');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/**
 * Creates an array of the enumerable property names of the array-like `value`.
 *
 * @private
 * @param {*} value The value to query.
 * @param {boolean} inherited Specify returning inherited property names.
 * @returns
*/
{Array} Returns the array of property names.

```javascript
function arrayLikeKeys(value, inherited) {
  var isArr = isArray(value),
      isArg = isArguments(value),
      isBuff = isBuffer(value),
      isTyped = isTypedArray(value),
      skipIndexes = isArr || isArg || isBuff || isTyped,
  result = [],
  length = result.length;

  for (var key in value) {
    if ((inherited || hasOwnProperty.call(value, key)) &&
        !(skipIndexes &&
           // Safari 9 has enumerable `arguments.length` in strict mode.
           key == 'length' ||
           // Node.js 0.10 has enumerable
           // non-index properties on buffers.
           (isBuff && (key == 'offset' || key == 'parent')) ||
           // PhantomJS 2 has
           // enumerable non-index properties on typed arrays.
           (isTyped && (key == 'buffer' || key == 'byteLength' || key
                            == 'byteOffset')) ||
           // Skip index properties.
           isIndex(key, length)
        )) {
      result.push(key);
    }
  }
  return result;
}

module.exports = arrayLikeKeys;
```


```javascript
var baseIsTypedArray = require('./_baseIsTypedArray'),
    baseUnary = require('./_baseUnary'),
    nodeUtil = require('./_nodeUtil');

var nodeIsTypedArray = nodeUtil && nodeUtil.isTypedArray;

/**
 * Checks if `value` is classified as a typed array.
 *
 * @static
 * @memberOf _
 * @since 3.0.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` if suitable for
 * strict equality comparisons, else `false`.
 * @example
 *
 * _.isTypedArray(new Uint8Array);
 * // => true
 *
 * _.isTypedArray(\[
]);
 * // => false
 */
var isTypedArray = nodeIsTypedArray ? baseUnary(nodeIsTypedArray) :
  baseIsTypedArray;

module.exports = isTypedArray;
```


```javascript
var isObject = require('./isObject');

/**
 * Checks if `value` is suitable for strict equality comparisons, i.e. `===`.
 *
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` if suitable for
 * strict
 * equality comparisons, else `false`.
 */
function isStrictComparable(value) {
  return value === value && !isObject(value);
}

module.exports = isStrictComparable;
```


```javascript
var baseHasIn = require('./_baseHasIn'),
    isStrictComparable = require('./_isStrictComparable');

/**
 * Checks if `path` is a direct or inherited
 * property of `object`.
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Object
 * @param {Object} object The object to query.
 * @param {Array|string} path The path to check.
 * @returns {boolean} Returns `true` if `path` exists, else `false`.
 * @example
 *
 * var object = _.create({ 'a': _.create({ 'b': 2 }) });
 *
 * _.hasIn(object, 'a');
 * // => true
 *
 * _.hasIn(object, ['a', 'b']);
 * // => true
 *
 * _.hasIn(object, { 'a': 'b' });
 * // => false
 */
function hasIn(object, path) {
  return object != null && hasPath(object, path, baseHasIn);
}

module.exports = hasIn;
```


```javascript
var toFinite = require('./toFinite');

/**
 * Converts `value` to an integer.
 *
 * **Note:** This method is loosely based on
 * [`ToInteger`](http://www.ecma-international.org/ecma-262/7.0/#sec-tointeger).
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to convert.
 * @returns {number} Returns the converted integer.
 * @example
 *
 * _.toInteger(3.2);
 * // => 3
 */
function toInteger(value) {
  return baseUnary(toFinite(value));
}
```


```javascript
var baseHasIn = require('./_baseHasIn'),
    hasPath = require('./_hasPath');

/**
 * A specialized version of `_.matchesProperty` for source values suitable
 * for strict equality comparisons, i.e. `==`.
 *
 * @private
 * @param {string} key The key of the property to get.
 * @param {*} srcValue The value to match.
 * @returns {Function} Returns the new spec function.
 */
function matchesStrictComparable(key, srcValue) {
  return function(object) {
    if (object == null) {
      return false;
    }
    return object[key] === srcValue &&
      (srcValue !== undefined || (key in Object(object)));
  };
}
```


```javascript
var baseIsTypedArray = require('./_baseIsTypedArray'),
    baseUnary = require('./_baseUnary'),
    nodeUtil = require('./_nodeUtil');

var nodeIsTypedArray = nodeUtil && nodeUtil.isTypedArray;

/**
 * Creates a unary
 * function that invokes `func` with its argument transformed.
 *
 * @private
 * @param {Function} func The function to wrap.
 * @param {Function} transform The argument transform.
 * @returns {Function} Returns the new function.
 */
function overArg(func, transform) {
  return function(arg) {
    return func(transform(arg));
  };
}
```


```javascript
var isObject = require('./isObject');

/**
 * Checks if `path` is a direct or inherited
 * property of `object`.
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Object
 * @param {Object} object The object to query.
 * @param {Array|string} path The path to check.
 * @returns {boolean} Returns `true` if `path` exists, else `false`.
 * @example
 *
 * var object = _.create({ 'a': _.create({ 'b': 2 }) });
 *
 * _.hasIn(object, 'a');
 * // => true
 *
 * _.hasIn(object, ['a', 'b']);
 * // => true
 *
 * _.hasIn(object, { 'a': 'b' });
 * // => false
 */
function hasIn(object, path) {
  return object != null && hasPath(object, path, baseHasIn);
}
```


```javascript
var toFinite = require('./toFinite');

/**
 * Converts `value` to an integer.
 *
 * **Note:** This method is loosely based on
 * `['ToInteger'](http://www.ecma-international.org/ecma-262/7.0/#sec-tointeger).
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to convert.
 * @returns {number} Returns the converted integer.
 * @example
 *
 * _.toInteger(3.2);
 * // => 3
 */
function toInteger(value) {
  return baseUnary(toFinite(value));
}
```


```javascript
var baseHasIn = require('./_baseHasIn'),
    hasPath = require('./_hasPath');

/**
 * A specialized version of `_.matchesProperty` for source values suitable
 * for strict equality comparisons, i.e. `==`.
 *
 * @private
 * @param {string} key The key of the property to get.
 * @param {*} srcValue The value to match.
 * @returns {Function} Returns the new spec function.
 */
function matchesStrictComparable(key, srcValue) {
  return function(object) {
    if (object == null) {
      return false;
    }
    return object[key] === srcValue &&
      (srcValue !== undefined || (key in Object(object)));
  };
}
```


```javascript
var baseIsTypedArray = require('./_baseIsTypedArray'),
    baseUnary = require('./_baseUnary'),
    nodeUtil = require('./_nodeUtil');

var nodeIsTypedArray = nodeUtil && nodeUtil.isTypedArray;

/**
 * Creates a unary
 * function that invokes `func` with its argument transformed.
 *
 * @private
 * @param {Function} func The function to wrap.
 * @param {Function} transform The argument transform.
 * @returns {Function} Returns the new function.
 */
function overArg(func, transform) {
  return function(arg) {
    return func(transform(arg));
  };
}
```


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 * property of `object`.
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 * _.hasIn(object, 'a');
 * // => true
 *
 * _.hasIn(object, ['a', 'b']);
 * // => true
 *
 * _.hasIn(object, { 'a': 'b' });
 * // => false
 */
function hasIn(object, path) {
  return object != null && hasPath(object, path, baseHasIn);
}
```


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var toFinite = require('./toFinite');

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 * Converts `value` to an integer.
 *
 * **Note:** This method is loosely based on
 * `['ToInteger'](http://www.ecma-international.org/ecma-262/7.0/#sec-tointeger).
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 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to convert.
 * @returns {number} Returns the converted integer.
 * @example
 *
 * _.toInteger(3.2);
 * // => 3
 */
function toInteger(value) {
  return baseUnary(toFinite(value));
}
```
/*<replacement>*/
var isArray = require('isarray');
/*</replacement>*/

/*<replacement>*/
var Duplex;
/*</replacement>*/

Readable.ReadableState = ReadableState;

/*<replacement>*/
var EE = require('events').EventEmitter;

var EElistenerCount = function (emitter, type) {
  return emitter.listeners(type).length;
};
/*</replacement>*/

/*<replacement>*/
var Stream = require('./internal/streams/stream');
/*</replacement>*/

/*<replacement>*/

var Buffer = require('safe-buffer').Buffer;
var OurUint8Array = global.Uint8Array || function () {};
function _uint8ArrayToBuffer(chunk) {
  return Buffer.from(chunk);
}
function _isUint8Array(obj) {
  return Buffer.isBuffer(obj) || obj instanceof OurUint8Array;
}

/*</replacement>*/

/*<replacement>*/
var util = require('core-util-is');
util.inherits = require('inherits');
/*</replacement>*/

/*<replacement>*/
var debugUtil = require('util');
var debug = void 0;
if (debugUtil && debugUtil.debuglog) {
  debug = debugUtil.debuglog('stream');
} else {
  debug = function () {};
}
/*</replacement>*/

var BufferList = require('./internal/streams/BufferList');
var destroyImpl = require('./internal/streams/destroy');
var StringDecoder;

util.inherits(Readable, Stream);

var kProxyEvents = ['error', 'close', 'destroy', 'pause', 'resume'];

function prependListener(emitter, event, fn) {
  // Sadly this is not cacheable as some libraries bundle their own
  // event emitter implementation with them. In that case, we don't
  // want to throw away anything from the original implementation.
  if (typeof emitter.prependListener === 'function') return emitter.prependListener(event, fn);

  // This is a hack to make sure that our error handler is attached before
  // anything else. This is here only because this code needs it.
  var origRun = emitter.run
    if (origRun && typeof origRun.prependListener === 'function') return origRun.prependListener(event, fn);

  // the point at which it stops calling _read() to fill the buffer
  // Note: 0 is a valid value, means "don't call _read
  // preemptively ever"
  var hwm = options.highWaterMark;

  // if true, a maybeReadMore has been scheduled
  this.readingMore = false;

  this.decoder = null;
  this.encoding = null;
  if (options.encoding) {
    if (!StringDecoder)
      StringDecoder = require('string_decoder/').StringDecoder;
    this.decoder = new StringDecoder(options.encoding);
  }

  if (isArray(emitter._events))
    emitter._events = emitter._events.slice();

  if (isDuplex)
    this.objectMode = this.objectMode || !!options.readableObjectMode;

  // Values can be separate separately as readableXXX and writableXXX
  var isDuplex = stream instanceof Duplex;
  var readableHwm = options.readableHighWaterMark;
  var hwm = options.highWaterMark;

  //ℓa // A linked list is used to store data chunks instead of an array because the
  // linked list can remove elements from the beginning faster than
  // array.shift() can. This is achieved by using a linked list and
  // careful bookkeeping to ensure that the buffer is freed as
  // elements are removed from the beginning.
  this.length = 0;

  // Crypto is kind of old and crusty. Historically, its default string
  // encoding is 'binary' so we have to make this configurable.
  // Everything else in the universe uses 'utf8', though.
  if (!this.defaultEncoding)
    this.defaultEncoding = 'utf8';

  // the number of writer threads waiting for the readable event
  this.needReadable = false;

  // the number of writer threads waiting for the readable event
  this.readable = false;

  // the number of writer threads waiting for the readable event
  this.readableListening = false;

  // has it been destroyed
  this.destroyed = false;

  // Crypto is kind of old and crusty. Historically, its default string
  // encoding is 'binary' so we have to make this configurable.
  // Everything else in the universe uses 'utf8', though.
  if (!this.defaultEncoding)
    this.defaultEncoding = 'utf8';

  // the number of writers that are awaiting a drain event
  this.length = 0;

  // Crypto is kind of old and crusty. Historically, its default string
  // encoding is 'binary' so we have to make this configurable.
  // Everything else in the universe uses 'utf8', though.
  if (!this.defaultEncoding)
    this.defaultEncoding = 'utf8';
true; 

if (options) {
  if (typeof options.read === 'function') this._read = options.read;
  if (typeof options.destroy === 'function') this._destroy = options.destroy;
}

Stream.call(this); 

Object.defineProperty(Readable.prototype, 'destroyed', {
  get: function () {
    if (this._readableState === undefined) {
      return false;
    }
    return this._readableState.destroyed;
  },
  set: function (value) {
    // we ignore the value if the stream hasn't been initialized yet
    if (!this._readableState) {
      return;
    }
    // backward compatibility, the user is explicitly managing destroy
    this._readableState.destroyed = value;
  }
});

Readable.prototype = Object.create(Stream.prototype); 

Readable.prototype._readableState = new ReadableState();

Readable.prototype._ctor = Readable;

Readable.prototype._destroy = function (err, cb) {
  this.push(null);
  cb(err);
};

Readable.prototype._undestroy = function (err, cb) {
  this._readableState.destroy(err, cb);
};

Readable.prototype._writableState = new WritableState();

Readable.prototype._writableState.writableHighWaterMark = 16;

Readable.prototype._writableState.writableLowWaterMark = 2;

Readable.prototype.push = function (chunk, encoding) {
  var state = this._readableState;
  var skipChunkCheck = false;

  if (!state.objectMode) {
    if (typeof chunk === 'string') {
      encoding = encoding || state.defaultEncoding;
      if (encoding !== state.encoding) {
        chunk = Buffer.from(chunk, encoding);
        encoding = '';
      }
      skipChunkCheck = true;
    }
  } else {
    skipChunkCheck = true;
  }

  if (addToFront) {
    if (state.endEmitted) stream.emit('error', new Error('stream.unshift() after end event'));
    else addChunk(stream, state, chunk, true);
  } else if (state.ended) {
    stream.emit('error', new Error('stream.push() after EOF'));
  } else {
    state.reading = false;
    if (state.decoder && !encoding) {
      chunk = state.decoder.write(chunk);
      if (state.objectMode || chunk.length !== 0) addChunk(stream, state, chunk, false);
    } else {
      addChunk(stream, state, chunk, false);
    }
  }

  return needMoreData(state);
};

Readable.prototype.isPaused = function () {
  return this._readableState.flowing === false;
};

Readable.prototype.setEncoding = function (enc) {
  if (!StringDecoder) StringDecoder = require('string_decoder/').StringDecoder;
  this._readableState.decoder = new StringDecoder(enc);
  this._readableState.encoding = enc;
  return this;
};

computeNewHighWaterMark = function (state) {
  return state.length + state.highWaterMark || state.length < state.highWaterMark || state.length === 0;
};

function needMoreData(state) {
  return !state.ended && (state.needReadable || state.length < state.highWaterMark || state.length === 0);
}

function maybeReadMore(stream, state) {
  if (state.needReadable && state.length !== 0) {
    state.needReadable = false;
    state.length = 0;
    stream.emit('readable', chunk);
  } else {
    state.length += state.objectMode ? 1 : chunk.length;
    if (addToFront) {
      state.buffer.unshift(chunk);
    } else {
      state.buffer.push(chunk);
    }
  }
}

readableAddChunk = function (stream, chunk, encoding, addToFront, skipChunkCheck) {
  var state = stream._readableState;
  if (chunk === null) {
    state.reading = false;
    onEofChunk(stream, state);
  } else {
    var er;
    if (!skipChunkCheck) er = chunkInvalid(state, chunk);
    if (er) {
      stream.emit('error', er);
    } else if (state.objectMode || chunk && chunk.length > 0) {
      if (typeof chunk !== 'string' && !state.objectMode) {
        chunk = _uint8ArrayToBuffer(chunk);
      }

      if (addToFront) {
        if (state.endEmitted) stream.emit('error', new Error('stream.unshift() after end event'));
        else addChunk(stream, state, chunk, true);
      } else if (state.ended) {
        stream.emit('error', new Error('stream.push() after EOF'));
      } else if (state.reading) {
        if (state.decoder && encoding) {
          chunk = state.decoder.write(chunk);
        } else if (state.objectMode || chunk.length !== 0) {
          addChunk(stream, state, chunk, false);
        }
      } else if (mayBeReadMore(stream, state)) {
        needMoreData(state);
      } else {
        state.needReadable = true;
        emitReadable(stream);
      }
    }
  }

  return needMoreData(state);
}
howMuchToRead(n, state) {
  var state = this._readableState;
  var needReadable = state.needReadable;
  if (needReadable || !state.ended) {
    state.needReadable = false;
    state.emittedReadable = true;
    state.reading = false;
    state.flowing = true;
    if (state.ended)
      endReadable(this);
    state.length -= n;
  }
  if (state.length === 0) return 0;
  if (state.length >= state.highWaterMark) return state.length;
  var objectMode = state.objectMode;
  if (objectMode)
    return state.length;
  if (n <= 0 || n < state.highWaterMark)
    return 0;
  if (state.length === 0)
    return 0;
  var needReadAgain = false;
  var nOrig = n;
  if (state.length - n < state.highWaterMark) {
    n = state.length;
    needReadAgain = true;
  }
  if (n > state.highWaterMark)
    state.highWaterMark = computeNewHighWaterMark(n);
  if (n <= state.length && n >= 0)
    return n;
  return state.length;
}

Readable.prototype.read = function (n)

  // Only flow one buffer at a time
  if (state.flowing && state.length) return state.buffer.head.data.length;
  // If we're asking for more than the current hwm, then
  raise the hwm.
  if (n > state.highWaterMark)
    state.highWaterMark = computeNewHighWaterMark(n);
  if (n <= state.length)
    return n;
  // Don't have enough
  if (!state.ended)
    return 0;
}

return state.length;

// you can override either this method, or the async _read(n)

function read(n, state) {
  var flow = state.ended;
  if (flow)
    return state.length;
  // If you don't have a buffer then just trigger
  // the 'readable'
  event and move on.
  if (state.length >= state.highWaterMark)
    return state.length;
  var needReadable = state.needReadable;
  if (needReadable || !state.ended)
    needReadable = true;
  if (state.ended)
    endReadable(this);
  // emit readable right away in sync mode, because this can trigger
  // another _read(n) call, in which case
  // the readable
  // event will be after the _read.
  emitReadable_(this);
  }
}

function emitReadable_(stream) {
  debug('emit readable');
  state.flowing = true;
  state.emittedReadable = true;
  state.reading = false;
  state.needReadable = false;
  if (!state.emittedReadable) {
    debug('emitReadable', state.length, state.ended);
    if (state.length === 0 && state.ended)
      endReadable(this);
    return null;
  }
  // Call internal read method
  this._read(state.highWaterMark);
  state.sync = false;
  // If _read
  // called, then call _read.
  Note that this may be asynchronous, or synchronous.
  Yes, it isn't deeply ugly to write APIs this way, but that still
doesn't mean that the Readable class should behave improperly, as
streams are designed to be sync/async agnostic.
  // Take note if the _read call is sync or async (ie, if the read call
  // has returned yet), so that we know
  whether or not it's safe to emit
  // readable etc.
  // 3. Actually pull the requested chunks out of the buffer
  // and return.
  return after we do
  // a read from the buffer.
  // 2. If that resulting state will trigger a _read, then call _read.
  //    the state
  // before there was *not* enough.
  // 1. Figure out what the state of things will
  // be after we do
  // a read from the buffer.
  // If that resulting state will trigger a _read, then call _read.
  // Note that this may be asynchronous, or synchronous.
  // Actually pull the requested chunks out of the buffer
  // and return.
  // if we need a readable event, then we need to do some reading.
  // var doRead = state.needReadable;
  // debug('need readable', doRead);
  // if we currently have less than the highWaterMark,
  // then also read some
  // debug('read: emitReadable', state.length, state.ended);
  // if (state.length === 0 && state.ended)
  // endReadable(this);
  // otherwise, push the chunks to the buffer
  if (state.length) return n;
  // Don't have enough
  if (!state.ended) {
    state.needReadable = true;
    state.reading = true;
    state.flowing = true;
    // If we're not ended, or reading, and the length < hwm
    // then go
ahead and try to read some more preemptively.

```javascript
function maybeReadMore(stream, state) {
  if (!$state.readingMore) {
    state.readingMore = true;
    pna.nextTick(maybeReadMore_, stream, state);
  }
}

function maybeReadMore_(stream, state) {
  var len = state.length;
  while (!$state.reading && !$state.ended && state.length < state.highWaterMark) {
    debug(`maybeReadMore read 0`);
    stream.read(0);
    if (len === state.length) // didn't get any data, stop spinning
      break; else len = state.length;
  }
  state.readingMore = false;
}

function readable.prototype._read = function(n) {
  this.emit('error', new Error('_read() is not implemented'));
}

Readable.prototype.pipe = function(dest, pipeOpts) {
  var src = this;
  var state = this._readableState;
  switch (state.pipesCount) {
    case 0:
      state.pipes = dest;
      break;
    case 1:
      state.pipes = [state.pipes, dest];
      break;
    default:
      state.pipes.push(dest);
      break;
  }
  state.pipesCount += 1;
  debug('pipe count=%d opts=%j', state.pipesCount, pipeOpts);

  var doEnd = (!pipeOpts || pipeOpts.end !== false) && dest !== process.stdout &&
    dest !== process.stderr;

  var endFn = doEnd ? onend : unpipe;
  if (state.endEmitted) pna.nextTick(endFn); else
    src.once('end', endFn);

  dest.on('unpipe', onunpipe);
  function onunpipe(readable, unpipeInfo) {
    debug('onunpipe');
    if (readable === src) {
      if (unpipeInfo && unpipeInfo.hasUnpiped === false) {
        unpipeInfo.hasUnpiped = true;
        cleanup();
      }
    }
  }

  function onend() {
    debug('onend');
    dest.end();
  }

  // when the dest drains, it reduces the awaitDrain counter
  // on the source. This would be more elegant with a .once()
  // handler in flow(), but adding and removing repeatedly is
  // too slow.
  var ondrain = pipeOnDrain(src);
  dest.on('drain', ondrain);

  var cleanedUp = false;
  function cleanup() {
    debug('cleanup');
    dest.removeListener('close', onclose);
    dest.removeListener('finish', onfinish);
    dest.removeListener('drain', ondrain);
    dest.removeListener('error', onerror);
    dest.removeListener('unpipe', onunpipe);
    src.removeListener('end', onend);
    src.removeListener('end', unpipe);
    src.removeListener('data', ondata);

    cleanedUp = true;

    // if the reader is waiting for a drain event from this
    // specific writer, then it would cause it to never start
    // flowing again.
    // So, if this is awaiting a drain, then we just call it now.
    // If we don't know, then assume that we are
    // waiting for one in state.awaitDrain && ((dest._writableState || dest._writableState.needDrain))
    ondrain();
  }

  // if the user pushes more data while we're trying to write to
  // dest then we'll end up in ondata again. However, we
  // only want to increase awaitDrain once because dest will only emit one 'drain' event for the multiple writes.
  // => Introduce a guard on increasing awaitDrain.
  function ondata(chunk) {
    debug('ondata');
    if (false === ret && !increasedAwaitDrain) {
      // If the user unpiped during 'dest.write()', it is possible
      // to get stuck in a permanently paused state if that write
      // also returned false. => Check whether 'dest' is
      // still a piping destination.
      if ((state.pipesCount === 1 && state.pipes === dest || state.pipesCount > 1 &&
        indexOf(state.pipes, dest) !== -1) && !cleanedUp) {
        debug('false write response, pause',
          src._readableState.ended ? '+1' : 'false');
        src.pause();
      }
    }
  }

  // if the reader has an error, then stop piping into it.
  // however, don't suppress the throwing behavior for this.
  function onerror(er) {
    debug('onerror', er);
    unpipe();
  }

  // Both close and finish should trigger unpipe, but only once.
  function onclose() {
    dest.removeListener('finish', onfinish);
    unpipe();
    src.once('close', onclose);
  }

  // Make sure our error handler is attached before userland ones.
  prependListener(dest, 'error', onerror);

  // If the user pushes more data while we're trying to write to
  // dest then we'll end up in ondata again. However, we
  // only want to increase awaitDrain once because dest will only emit one 'drain' event for the multiple writes.
  // => Introduce a guard on increasing awaitDrain.
  // If the user unpiped during 'dest.write()', it is possible
  // to get stuck in a permanently paused state if that write
  // also returned false. => Check whether 'dest' is
  // still a piping destination.
  if ((state.pipesCount === 1 && & state.pipes === dest || state.pipesCount > 1 &&
    indexOf(state.pipes, dest) !== -1) && & !cleanedUp) {
    debug('false write response, pause',
      src._readableState.ended ? '+1' : 'false');
    src.pause();
  }
}
```
};
}

Readable.prototype.unpipe = function (dest) {
  var state = this._readableState;
  var unpipeInfo = { hasUnpiped: false };
  // if we're not piping anywhere, then do nothing.
  if (state.pipesCount === 0) return this;
  // just one destination.  most common case.
  if (state.pipesCount === 1) {
    var len = state.pipesCount;
    var pipes = state.pipes;
    if (dest === pipes[0]) return this;

    if (dest) {
      var state = this._readableState;
      state.pipes = pipes;
      state.pipesCount = len;
      state.reading = false;
    } else {
      state.pipes = null;
      state.pipesCount = 0;
      state.reading = false;
    }

    if (state.reading) return this;
  }

  // slow case.  multiple pipe destinations.
  var dests = state.pipes;
  var len = state.pipesCount;
  state.flowing = false;
  for (var i = 0; i < len; i++) {
    var dest = dests[i];
    var destLength = dest.length;
    dest.emit('unpipe', this, unpipeInfo);
  }

  state.pipes = null;
  state.pipesCount = 0;
  state.reading = false;
  state.paused = false;
  state.ended = false;

  return this;
}

Readable.prototype.on = function (ev, fn) {
  var res = Stream.prototype.on.call(this, ev, fn);
  if (ev === 'data') {
    // Start flowing on next tick if stream isn't
    // explicitly paused.
    this._readableState.flowing = false;
  } else if (ev === 'readable') {
    var state = this._readableState;
    if (state.flowing !== false) return;
    state.resumeScheduled = true;
    state.emittedReadable = false;

    // ensure readable listeners eventually get something
    Readable.prototype.on = function (ev, fn) {
      var res = Stream.prototype.on.call(this, ev, fn);
      if (ev === 'data') {
        this._readableState.flowing = true;
      } else if (ev === 'readable') {
        var state = this._readableState;
        if (state.flowing !== false) return;
        state.resumeScheduled = true;
        state.emittedReadable = false;
        this._readableState.flowing = false;
        this.emit('readable', null);
      }
    }
  }

  return res;
};

Readable.prototype.addListener = Readable.prototype.on;

function nReadingNextTick(self) {
  debug('readable nexttick read 0');
  self.read(0);
}

// pause() and resume() are remnants of the legacy readable
// stream API.
// If the user uses them, then switch into old mode.
Readable.prototype.pause = function () {
  var state = this._readableState;
  if (!state.flowing) {
    debug('pause');
    state.flowing = false;
    this.emit('pause');
  }
  return this;
};

function flow(stream) {
  var state = stream._readableState;
  debug('flow', state.flowing);
  while (state.flowing && stream.read() !== null) {
    stream.emit('data', stream.read());
  }
}

function fromList(stream, list, isPaused, i) {
  for (; i < list.length; i++) {
    var chunk = list[i];
    stream.emit('data', chunk);
  }
  return isPaused ? stream : stream.pause();
}

Readable._fromList = fromList;

// Pluck off n bytes from an array of buffers.
// Length

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this._readableState.endEmitted = false; if (this._writableState) {
  this._writableState.destroyed = false;
  this._writableState.ended = false;
  this._writableState.ending = false;
  this._writableState.finished = false;
  this._writableState.errorEmitted = false;
}

function emitErrorNT(self, err) {
  self.emit('error', err);
}

module.exports = {
  destroy: destroy,
  undestroy: undestroy
};

// WEBPACK FOOTER
// ./node_modules/readable-stream/lib/internal/streams/destroy.js
// module id = 310
// module chunks = 0","var scope = (typeof global !== "undefined" && & & global) ||

(function (self) {
  self
})(typeof global !== "undefined" && & & global) ||

window

var apply = Function.prototype.apply;

// Do not start the time, just sets up the members

function Timeout(id, clearFn) {
  this._id = id;
  this._clearFn = clearFn;
}
Timeout.prototype.unref = Timeout.prototype.ref = function () {};
Timeout.prototype.close = function () {
  this._clearFn.call(scope, this._id);
};

// Does not start the time, just sets up the members

function _normalizeEncoding(enc) {
  if (!enc) return 'utf8';
  var retried;
  while (true) {
    switch (enc) {
      case 'utf8':
      case 'utf-8':
        return 'utf8';
      case 'ucs2':
      case 'ucs-2':
      case 'utf16le':
      case 'utf-16le':
        return 'utf16le';
      case 'latin1':
      case 'binary':
        return enc;
      case 'base64':
      case 'ascii':
      case 'hex':
        return enc;
      default:
        if (retried) return; // undefined
        enc = ('' + enc).toLowerCase();
        retried = true;
    }
  }
};

function normalizeEncoding(enc) {
  var nenc = _normalizeEncoding(enc);
  if (typeof nenc !== 'string' &&
      this._clearImmediate){
    this._clearImmediate();
  }

  var msecs = item._idleTimeout;
  if (msecs >= 0) {
    item._idleTimeoutId = setTimeout(function onTimeout() {
      if (item._onTimeout)
        item._onTimeout();
    }, msecs);
  }
}

// Do not cache `Buffer.isEncoding` when checking encoding names as some
// modules monkey-patch it to support additional encodings

function normalizeEncoding(enc) {
  var msecs = item._idleTimeout;
  if (msecs >= 0) {
    item._idleTimeoutId = setTimeout(function onTimeout() {
      if (item._onTimeout)
        item._onTimeout();
    }, msecs);
  }

  // Does not start the time, just sets up the members

  function Timeout(id, clearFn) {
    this._id = id;
    this._clearFn = clearFn;
  }
  Timeout.prototype.unref = Timeout.prototype.ref = function () {};
  Timeout.prototype.close = function () {
    this._clearFn.call(scope, this._id);
  }"
chunk were consumed.\n\n'use strict';\n\nmodule.exports = Transform;\n\nvar Duplex =
require('./_stream_duplex');\n\n/*<replacement>*/\nvar util = require('core-util-is');\nutil.inherits =
require('inherits');\n/*</replacement>*/\n\nutil.inherits(Transform, Duplex);\n\nfunction afterTransform(er, data)
{\n var ts = this._transformState;\n ts.transforming = false;\n\n var cb = ts.writecb;\n\n if (!cb) {\n return
this.emit('error', new Error('write callback called multiple times'));\n }\n\n ts.writechunk = null;\n ts.writecb =
null;\n\n if (data != null) // single equals check for both `null` and `undefined`\n this.push(data);\n\n cb(er);\n\n
var rs = this._readableState;\n rs.reading = false;\n if (rs.needReadable || rs.length < rs.highWaterMark) {\n
this._read(rs.highWaterMark);\n }\n}\n\nfunction Transform(options) {\n if (!(this instanceof Transform)) return
new Transform(options);\n\n Duplex.call(this, options);\n\n this._transformState = {\n afterTransform:
afterTransform.bind(this),\n needTransform: false,\n transforming: false,\n writecb: null,\n writechunk:
null,\n writeencoding: null\n };\n\n // start out asking for a readable event once data is transformed.\n
this._readableState.needReadable = true;\n\n // we have implemented the _read method, and done the other things\n
// that Readable wants before the first _read call, so unset the\n // sync guard flag.\n this._readableState.sync =
false;\n\n if (options) {\n if (typeof options.transform === 'function') this._transform = options.transform;\n\n if
(typeof options.flush === 'function') this._flush = options.flush;\n }\n\n // When the writable side finishes, then
flush out anything remaining.\n this.on('prefinish', prefinish);\n}\n\nfunction prefinish() {\n var _this = this;\n\n if
(typeof this._flush === 'function') {\n this._flush(function (er, data) {\n
done(_this, er, data);\n });\n } else
{\n done(this, null, null);\n }\n}\n\nTransform.prototype.push = function (chunk, encoding) {\n
this._transformState.needTransform = false;\n return Duplex.prototype.push.call(this, chunk, encoding);\n};\n\n//
This is the part where you do stuff!\n// override this function in implementation classes.\n// 'chunk' is an input
chunk.\n//\n// Call `push(newChunk)` to pass along transformed output\n// to the readable side. You may call 'push'
zero or more times.\n//\n// Call `cb(err)` when you are done with this chunk. If you pass\n// an error, then that'll put
the hurt on the whole operation. If you\n// never call cb(), then you'll never get another
chunk.\nTransform.prototype._transform = function (chunk, encoding, cb) {\n throw new Error('_transform() is not
implemented');\n};\n\nTransform.prototype._write = function (chunk, encoding, cb) {\n var ts =
this._transformState;\n ts.writecb = cb;\n ts.writechunk = chunk;\n ts.writeencoding = encoding;\n if
(!ts.transforming) {\n var rs = this._readableState;\n if (ts.needTransform || rs.needReadable || rs.length <
rs.highWaterMark) this._read(rs.highWaterMark);\n }\n};\n\n// Doesn't matter what the args are here.\n//
_transform does all the work.\n// That we got here means that the readable side wants more
data.\nTransform.prototype._read = function (n) {\n var ts = this._transformState;\n\n if (ts.writechunk !== null
&& ts.writecb && !ts.transforming) {\n ts.transforming = true;\n this._transform(ts.writechunk,
ts.writeencoding, ts.afterTransform);\n } else {\n // mark that we need a transform, so that any data that comes
in\n // will get processed, now that we've asked for it.\n ts.needTransform = true;\n
}\n};\n\nTransform.prototype._destroy = function (err, cb) {\n var _this2 = this;\n\n
Duplex.prototype._destroy.call(this, err, function (err2) {\n cb(err2);\n _this2.emit('close');\n });\n};\n\nfunction
done(stream, er, data) {\n if (er) return stream.emit('error', er);\n\n if (data != null) // single equals check for both
`null` and `undefined`\n stream.push(data);\n\n // if there's nothing in the write buffer, then that means\n // that
nothing more will ever be provided\n if (stream._writableState.length) throw new Error('Calling transform done
when ws.length != 0');\n\n if (stream._transformState.transforming) throw new Error('Calling transform done when
still transforming');\n\n return stream.push(null);\n}\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/readable-stream/lib/_stream_transform.js\n// module id = 313\n// module chunks = 0","\"use
strict\";\n\nvar isValue = require(\"./is-value\");\n\nvar forEach = Array.prototype.forEach, create =
Object.create;\n\nvar process = function (src, obj) {\n\tvar key;\n\tfor (key in src) obj[key] = src[key];\n};\n\n//
eslint-disable-next-line no-unused-vars\nmodule.exports = function (opts1 /*, …options*/) {\n\tvar result =
create(null);\n\tforEach.call(arguments, function (options) {\n\t\tif (!isValue(options))
return;\n\t\tprocess(Object(options), result);\n\t});\n\treturn result;\n};\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/es5-ext/object/normalize-options.js\n// module id = 314\n// module chunks = 0","\"use
strict\";\n\n// eslint-disable-next-line no-empty-function\nmodule.exports = function () {};\n\n\n\n//////////////////\n//

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var toPosInt = require("es5-ext/number/to-pos-integer");

module.exports = function (optsLength, fnLength, isAsync) {
  var length;
  if (isNaN(optsLength)) {
    length = fnLength;
    if (!(length >= 0)) return 1;
    if (isAsync && length) return length - 1;
    return false;
  }
  return toPosInt(optsLength);
};

module.exports = require("./is-implemented")()
  ? Object.assign
  : require("./shim");

var toPosInt = require("../number/to-pos-integer");

var test = function (arg1, arg2) {
  return arg2;
};

var desc, defineProperty, generate, mixin;

try {
  Object.defineProperty(test, "length", {
    configurable: true,
    writable: false,
    enumerable: false,
    value: 1
  });
} catch (ignore) {}

if (test.length === 1) {
  desc = { configurable: true, writable: false, enumerable: false };
  defineProperty = Object.defineProperty;
  module.exports = function (fn, length) {
    length = toPosInt(length);
    if (fn.length === length) return fn;
    desc.value = length;
    return defineProperty(fn, "length", desc);
  };
} else {
  mixin = require("../object/mixin");
  generate = (function () {
    var cache = [];
    return function (length) {
      var args, i = 0;
      while (length--)
        args.push("a" + (++i).toString(36));
      // eslint-disable-next-line no-new-func
      return new Function(
        "fn",
        "return function (" + args.join(", ") + ") { return fn.apply(this, arguments);}
      )();
    };}
  )();
  module.exports = function (src, length) {
    var target;
    length = toPosInt(length);
    if (src.length === length) return src;
    target = generate(length)(src);
    try {
      mixin(target, src);
    } catch (ignore) {}
    return target;
  };
}

module.exports = function (target, source) {
  var error, sourceObject = Object(value(source));
  target = Object(value(target));
  getOwnPropertyNames(sourceObject).forEach(function (name) {
    try {
      defineProperty(target, name, getOwnPropertyDescriptor(source, name));
    } catch (e) {
      error = e;
    }
  });
  if (typeof getOwnPropertySymbols === "function")
    getOwnPropertySymbols(sourceObject).forEach(function (symbol) {
      try {
        defineProperty(target, symbol, getOwnPropertyDescriptor(source, symbol));
      } catch (e) {
        error = e;
      }
    });
  if (error !== undefined) throw error;
};

module.exports = isPromise;

function isPromise(obj) {
  return !!obj && (typeof obj === 'object' || typeof obj === 'function') && typeof obj.then === 'function';
}

import makeReducers from "./reducers"
import * as actions from "./actions"
import * as selectors from "./selectors"

export default function(system) {
  return {
    statePlugins: {
      err: {
        reducers: makeReducers(system),
        actions,
        selectors
      }
    }
  }
}

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message: "Unknown error"

let error = Object.assign(DEFAULT_ERROR_STRUCTURE, err, { type: "thrown" })

let error = error.set("type", "spec")

let newErrors = state.get("errors")
  .filter(err => {
    if(!err.get("line") && err.get("path")) {
      // TODO: re-resolve line number if we’ve transformed it away
    }
    return err
  })

let newErrors = state.get("errors")
  .filter(err => {
    return err.keySeq().every(k => {
      const errValue = err.get(k)
      const filterValue = payload[k]

      if(!filterValue) return true

      return errValue !== filterValue
    })
  })

return state
  .update("errors", errors => (errors || List()).filter(err => !!err).map(err => {
    if(err.get("message").indexOf("is not of a type(s)\nconst errValue = err.get(k)
const filterValue = payload[k]
if(!filterValue) return true
return err
    })
  })

function makeNewMessage(types) {
  return types.reduce((p, c, i, arr) => {
    if(i === arr.length - 1 && arr.length > 1) {
      return p + "or " + c
    } else if(arr[i+1] && arr.length > 2) {
      return p + c + ", 
    } else if(arr[i+1]) {
      return p + c + " 
    } else {
      return p + c
    }
  }, "should be a")
}

let newErrors = state.get("errors")
  .filter(err => {
    return err.keySeq().every(k => {
      const errValue = err.get(k)
      const filterValue = payload[k]

      if(!filterValue) return true

      return errValue !== filterValue
    })
  })

return state
  .update("errors", errors => (errors || List()).filter(err => !!err).map(err => {
    if(err.get("message").indexOf("is not of a type(s)\nconst errValue = err.get(k)
const filterValue = payload[k]
if(!filterValue) return true
return err
    })
  })

function makeNewMessage(types) {
  return types.reduce((p, c, i, arr) => {
    if(i === arr.length - 1 && arr.length > 1) {
      return p + "or " + c
    } else if(arr[i+1] && arr.length > 2) {
      return p + c + ", 
    } else if(arr[i+1]) {
      return p + c + " 
    } else {
      return p + c
    }
  }, "should be a")
}

let newErrors = state.get("errors")
  .filter(err => {
    return err.keySeq().every(k => {
      const errValue = err.get(k)
      const filterValue = payload[k]

      if(!filterValue) return true

      return errValue !== filterValue
    })
  })

return state
  .update("errors", errors => (errors || List()).filter(err => !!err).map(err => {
    if(err.get("message").indexOf("is not of a type(s)\nconst errValue = err.get(k)
const filterValue = payload[k]
if(!filterValue) return true
return err
    })
  })

function makeNewMessage(types) {
  return types.reduce((p, c, i, arr) => {
    if(i === arr.length - 1 && arr.length > 1) {
      return p + "or " + c
    } else if(arr[i+1] && arr.length > 2) {
      return p + c + ", 
    } else if(arr[i+1]) {
      return p + c + " 
    } else {
      return p + c
    }
  }, "should be a")
}
if(isParameterOneOfError) {
  // try to find what's wrong
  return createTailoredParameterError(err, jsSpec)
} else {
  return err
}


const
VALID_IN_VALUES = ["path", "query", "header", "body", "formData"]
const
VALID_COLLECTIONFORMAT_VALUES = ["csv", "ssv", "tsv", "pipes", "multi"]

function
createTailoredParameterError(err, jsSpec) {
  let parameter = get(jsSpec, err.get("path"))

  // find addressable cases
  if(parameter.in && VALID_IN_VALUES.indexOf(parameter.in) === -1) {
    let message = `Wrong value for the "in" keyword. Expected one of: ${VALID_IN_VALUES.join(", ")}.`
    newErrs.push({
      message,
      path: err.get("path") + ".in",
      type: "spec",
      source: "structural",
      level: "error"
    })
  }

  if(parameter.collectionFormat &&
  VALID_COLLECTIONFORMAT_VALUES.indexOf(parameter.collectionFormat) === -1) {
    let message = `Wrong value for the "collectionFormat" keyword. Expected one of: ${VALID_COLLECTIONFORMAT_VALUES.join(", ")}.`
    newErrs.push({
      message,
      path: err.get("path") + ".collectionFormat",
      type: "spec",
      source: "structural",
      level: "error"
    })
  }

  return newErrs.length ? fromJS(newErrs) : err // fall back to making no changes
}


// WEBPACK FOOTER //
// ./src/core/plugins/err/error-transformers/transformers/parameter-oneof.js
method, \"text\" ], res.data)\n }\n return newState\n },\n\n [SET_REQUEST]: (state, { payload: { req, path,
method } } ) =>{\n return state.setIn( [ \"requests\", path, method ], fromJSOrdered(req))\n },\n\n
[SET_MUTATED_REQUEST]: (state, { payload: { req, path, method } } ) =>{\n return state.setIn( [
\"mutatedRequests\", path, method ], fromJSOrdered(req))\n },\n\n [UPDATE_OPERATION_META_VALUE]:
(state, { payload: { path, value, key } }) => {\n // path is a pathMethod tuple... can't change the name now.\n let
operationPath = [\"paths\", ...path]\n let metaPath = [\"meta\", \"paths\", ...path]\n\n if(\n
!state.getIn([\"json\",
...operationPath])\n
&& !state.getIn([\"resolved\", ...operationPath])\n
&& !state.getIn([\"resolvedSubtrees\",
...operationPath])\n ) {\n
// do nothing if the operation does not exist\n
return state\n }\n\n return
state.setIn([...metaPath, key], fromJS(value))\n },\n\n [CLEAR_RESPONSE]: (state, { payload: { path, method } }
) =>{\n return state.deleteIn( [ \"responses\", path, method ])\n },\n\n [CLEAR_REQUEST]: (state, { payload: {
path, method } } ) =>{\n return state.deleteIn( [ \"requests\", path, method ])\n },\n\n [SET_SCHEME]: (state, {
payload: { scheme, path, method } } ) =>{\n if ( path && method ) {\n
return state.setIn( [ \"scheme\", path,
method ], scheme)\n }\n\n if (!path && !method) {\n
return state.setIn( [ \"scheme\", \"_defaultScheme\" ],
scheme)\n }\n\n }\n\n}\n\n\n\n// WEBPACK FOOTER //\n// ./src/core/plugins/spec/reducers.js","// 7.3.20
SpeciesConstructor(O, defaultConstructor)\nvar anObject = require('./_an-object');\nvar aFunction = require('./_afunction');\nvar SPECIES = require('./_wks')('species');\nmodule.exports = function (O, D) {\n var C =
anObject(O).constructor;\n var S;\n return C === undefined || (S = anObject(C)[SPECIES]) == undefined ? D :
aFunction(S);\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/corejs/library/modules/_species-constructor.js\n// module id = 336\n// module chunks = 0","var ctx =
require('./_ctx');\nvar invoke = require('./_invoke');\nvar html = require('./_html');\nvar cel = require('./_domcreate');\nvar global = require('./_global');\nvar process = global.process;\nvar setTask = global.setImmediate;\nvar
clearTask = global.clearImmediate;\nvar MessageChannel = global.MessageChannel;\nvar Dispatch =
global.Dispatch;\nvar counter = 0;\nvar queue = {};\nvar ONREADYSTATECHANGE =
'onreadystatechange';\nvar defer, channel, port;\nvar run = function () {\n var id = +this;\n // eslint-disable-nextline no-prototype-builtins\n if (queue.hasOwnProperty(id)) {\n var fn = queue[id];\n delete queue[id];\n fn();\n
}\n};\nvar listener = function (event) {\n run.call(event.data);\n};\n// Node.js 0.9+ & IE10+ has setImmediate,
otherwise:\nif (!setTask || !clearTask) {\n setTask = function setImmediate(fn) {\n var args = [];\n var i = 1;\n
while (arguments.length > i) args.push(arguments[i++]);\n queue[++counter] = function () {\n
// eslint-disablenext-line no-new-func\n
invoke(typeof fn == 'function' ? fn : Function(fn), args);\n };\n defer(counter);\n
return counter;\n };\n clearTask = function clearImmediate(id) {\n delete queue[id];\n };\n // Node.js 0.8-\n if
(require('./_cof')(process) == 'process') {\n defer = function (id) {\n
process.nextTick(ctx(run, id, 1));\n };\n //
Sphere (JS game engine) Dispatch API\n } else if (Dispatch && Dispatch.now) {\n defer = function (id) {\n
Dispatch.now(ctx(run, id, 1));\n };\n // Browsers with MessageChannel, includes WebWorkers\n } else if
(MessageChannel) {\n channel = new MessageChannel();\n port = channel.port2;\n channel.port1.onmessage =
listener;\n defer = ctx(port.postMessage, port, 1);\n // Browsers with postMessage, skip WebWorkers\n // IE8 has
postMessage, but it's sync & typeof its postMessage is 'object'\n } else if (global.addEventListener && typeof
postMessage == 'function' && !global.importScripts) {\n defer = function (id) {\n
global.postMessage(id + '',
'*');\n };\n global.addEventListener('message', listener, false);\n // IE8-\n } else if
(ONREADYSTATECHANGE in cel('script')) {\n defer = function (id) {\n
html.appendChild(cel('script'))[ONREADYSTATECHANGE] = function () {\n
html.removeChild(this);\n
run.call(id);\n
};\n };\n // Rest old browsers\n } else {\n defer = function (id) {\n
setTimeout(ctx(run, id,
1), 0);\n };\n }\n}\nmodule.exports = {\n set: setTask,\n clear: clearTask\n};\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/core-js/library/modules/_task.js\n// module id = 337\n// module chunks =
0","module.exports = function (exec) {\n try {\n return { e: false, v: exec() };\n } catch (e) {\n return { e: true,
v: e };\n }\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/corejs/library/modules/_perform.js\n// module id = 338\n// module chunks = 0","var anObject = require('./_anobject');\nvar isObject = require('./_is-object');\nvar newPromiseCapability = require('./_new-promisecapability');\n\nmodule.exports = function (C, x) {\n anObject(C);\n if (isObject(x) && x.constructor === C) return

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undefined;
if (newValue === undefined) {
  newValue = isObject(objValue) ? objValue
    : (isIndex(path[index + 1]) ? {} : {});
}

assignValue(nested, key, newValue);

module.exports = baseSet;

/**
 * The base implementation of `assignValue` and `assignMergeValue`
 * without value checks.
 *
 * @private
 * @param {Object} object The object to modify.
 * @param {string} key The key of the property to assign.
 * @param {*} value The value to assign.
 * @function
 */
function baseAssignValue(object, key, value) {
  if (key == '__proto__' && defineProperty) {
    defineProperty(object, key, {
      'configurable': true,
      'enumerable': true,
      'value': value,
      'writable': true
    });
  } else {
    object[key] = value;
  }
}

module.exports = baseAssignValue;

```javascript
// WEBPACK FOOTER
// ./node_modules/lodash/_getNative.js
// module id = 349
// module chunks = 0
```
Component {

constructor(props, context) {
  super(props, context)
  const render = (getSystem, getStore, getComponent, getComponents, domNode) => {
    let App = (getComponent(getSystem, getStore, getComponents, componentName, "root"))
    ReactDOM.render(<App />, domNode)
  }

  render = (getSystem, getStore, getComponents, componentName, container) => {
    if (typeof componentName !== "string")
      throw new TypeError("Need a string.");
    let component = getComponents(componentName)
    if (!component) {
      getSystem().log.warn("Could not find component", componentName)
      return null
    }
    if (container == null)
      return wrapComponent(getSystem, component, getStore());
    // container != null
    return makeContainer(getSystem, wrapComponent(component))
  }

  __esModule: true
}

}
allocate an array).\n*/

function forEachAccumulated(arr, cb, scope) {
  if (Array.isArray(arr)) {
    arr.forEach(cb, scope);
  } else if (arr) {
    cb.call(scope, arr);
  }
}

module.exports = forEachAccumulated;

CallbackQueue = function (arg) {
  this._classCallCheck(this, CallbackQueue);
  this._callbacks = null;
  this._contexts = null;
  this._arg = arg;
  this._notifyAllInvoked = false;
  this._lastContextIndex = -1;
  this._lastCallbackIndex = -1;
  this._constructor = CallbackQueue;
  this.prototype.enqueue = function (callback, context) {
    this._callbacks.push(callback);
    this._contexts.push(context);
  }
  this.prototype.notifyAll = function () {
    var callbacks = this._callbacks,
        contexts = this._contexts;
    var arg = this._arg;
    if (callbacks && contexts) {
      for (var i = 0; i < callbacks.length; i++) {
        callbacks[i].call(contexts[i], arg);
      }
      callbacks.length = 0;
    }
  }
  this.prototype.checkpoint = function () {
    return this._callbacks.length;
  }
  this.prototype.rollback = function(len) {
    if (this._callbacks && this._contexts) {
      this._callbacks = this._callbacks.slice(0, len);
      this._contexts = this._contexts.slice(0, len);
    }
  }
  this.prototype.reset = function () {
    this._callbacks = null;
    this._contexts = null;
  }
  this.prototype.destructor = function () {
    this.reset();
  }
}

module.exports = PooledClass.addPoolingTo(CallbackQueue);

ReactFeatureFlags = {
  logTopLevelRenders: false
};

module.exports = ReactFeatureFlags;

console.time('callback queue');
for (i = 0; i < 1000; i++) {
  var callback = function () {
    // Do some work
  }
  var context = {i: i};
  this._callbacks.push(callback);
  this._contexts.push(context);
}
console.timeEnd('callback queue');
chunks = 0","/**
 * Copyright (c) 2013-present, Facebook, Inc.
 * 
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
 * 
 * @see http://www.whatwg.org/specs/web-apps/current-work/multipage/the-input-element.html#input-type-attr-summary
 */

var supportedInputTypes = {
  color: true,
  date: true,
  datetime: true,
  'datetime-local': true,
  email: true,
  month: true,
  number: true,
  password: true,
  range: true,
  search: true,
  tel: true,
  text: true,
  time: true,
  url: true,
  week: true
};

function isTextInputElement(elem) {
  var nodeName = elem && elem.nodeName &&
  elem.nodeName.toLowerCase();

  if (nodeName === 'input') {
    return !!supportedInputTypes[elem.type];
  }

  if (nodeName === 'textarea') {
    return true;
  }

  return false;
}

module.exports = isTextInputElement;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/isTextInputElement.js
// module id = 360
// module chunks = 0
require('fbjs/lib/ExecutionEnvironment');
var escapeTextContentForBrowser = require('./escapeTextContentForBrowser');
var setInnerHTML = require('./setInnerHTML');

/**
 * Set the textContent property of a node, ensuring that whitespace is preserved
 * in even in IE8. innerText is a poor substitute for textContent and, among many
 * issues, inserts `<br>` instead of the literal newline chars. innerHTML behaves
 * as it should.\n * @param {DOMElement} node
 * @param {string} text
 * @internal
 */
var settextContent = function(node, text) {
  if (text) {
    var firstChild = node.firstChild;

    if (firstChild && firstChild === node.lastChild && firstChild.nodeType === 3) {
      firstChild.nodeValue = text;
      return;
    }
  }
  node.textContent = text;
};

if (ExecutionEnvironment.canUseDOM) {
  if (!('textContent' in document.documentElement)) {
    settextContent = function(node, text) {
      if (node.nodeType === 3) {
        node.nodeValue = text;
        return;
      }
      setInnerHTML(node, escapeTextContentForBrowser(text));
    };
  }
}

module.exports = settextContent;

//////////////////
// WEBPACK FOOTER
// module id = 362
// module chunks = 0

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
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 * file in the root directory of this source tree.
 */

'use strict';

/**
 * @param {DOMElement} node
 * @param {string} text
 * input/textarea to focus
 */

function focusNode(node) {
  // IE8 can throw "Can't move focus to the control
  // because it is invisible," not enabled, or of a type that does not accept the focus.
  try {
    node.focus();
  } catch (e) {
  }
}

module.exports = focusNode;

//////////////////
// WEBPACK FOOTER
// module id = 363
// module chunks = 0

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 */

'use

strict';

/**
 * CSS properties which accept numbers but are not in units of "px".
 */

var isUnitlessNumber = {
  animationIterationCount: true,
  borderImageOutset: true,
  borderImageSlice: true,
  borderImageWidth: true,
  boxFlex: true,
  boxFlexGroup: true,
  boxOrdinalGroup: true,
  columnCount: true,
  columns: true,
  flex: true,
  flexGrow: true,
  flexPositive: true,
  flexShrink: true,
  flexNegative: true,
  flexOrder: true,
  gridColumn: true,
  gridColumnEnd: true,
  gridColumnSpan: true,
  gridColumnStart: true,
  fontWeight: true,
  lineClamp: true,
  lineHeight: true,
  opacity: true,
  order: true,
  orphans: true,
  tabSize: true,
  widows: true,
  zIndex: true,
  zoom: true,
  // SVG-related properties
  fillOpacity: true,
  floodOpacity: true,
  stopOpacity: true,
  strokeDasharray: true,
  strokeDashoffset: true,
  strokeMiterlimit: true,
  strokeOpacity: true,
  strokeWidth: true,
  \n*\n* @param {string} prefix vendor-specific prefix, eg: Webkit\n* @param {string} key style name, eg: transitionDuration\n* @return {string} style name prefixed with `prefix`, properly camelCased, eg:* * Support style names that may come passed in prefixed by adding permutations \n* of vendor prefixes.\n* * Notebook keys here, or else the vanilla for-in loop makes IE8 go into an infinite loop, because it iterates over the newly added props too.\n* * Object keys(isUnitlessNumber).forEach(function (prop) {\n* \n* forEach(function (prefix) {\n* \n* prefixes.forEach(function (prefix) {\n* \n* isUnitlessNumber(prefixKey(prefix, prop)) \n* \n* isUnitlessNumber[[prop]]}]);\n* \n* isUnitlessNumber * Most style properties can be unset by doing .style[prop] = "" but IE8\n* doesn't like doing that with shorthand properties so for the properties that\n* IE8 breaks on, which are listed here, we instead unset each of the\n* individual properties. See http://bugs.jquery.com/ticket/12385.\n* * The 4-value 'clock' properties like margin, padding, border-width seem to\n* behave without any problems. Curiously, list-style works too without any\n* special prodding.\n* * Shorthand Property Expansions = \n* background: \n* backgroundAttachment: true,\n* backgroundImage: true,\n* backgroundPositionX: true,\n* backgroundPositionY: true,\n* backgroundRepeat: true,\n* backgroundPosition: \n* border: \n* borderLeftWidth: true,\n* borderColor: true,\n* borderTopWidth: true,\n* borderTopStyle: true,\n* borderTopColor: true,\n* }];\n* borderRight: \n* borderTop: \n* */

};
true; \n for (var i = 0; i < valuePropNames.length; i++) { \n  var propName = valuePropNames[i]; \n  if (props[propName] == null) { \n    continue; \n  } \n  var isArray = Array.isArray(props[propName]); \n  if (props.multiple && !isArray) { \n    process.env.NODE_ENV !== 'production'? warning(false, 'The `%s` prop supplied to <select> must be an array if `+multiple` is true. `%s`', propName, getDeclarationErrorAddendum(owner)) : void 0; \n  } else if ((props.multiple && isArray) { \n    for (var i = 0; i < valuePropNames.length; i++) { \n      var propName = valuePropNames[i]; \n      if (props[propName] == null) { \n        continue; \n      } \n      var isArray = Array.isArray(props[propName]); \n      if (props.multiple && !isArray) { \n        if (process.env.NODE_ENV !== 'production') { \n          warning(false, 'The `%s` prop supplied to <select> must be a scalar `+value` if `+multiple` is false. `%s`, propName, getDeclarationErrorAddendum(owner)) : void 0; \n        } \n      } \n    }
  }

  if (options[i].selected !== selected) { \n    options[i].selected = selected; \n  } \n  } else { \n    // Do not set `select.value` as exact behavior isn't consistent across all browsers for all cases. \n    selectedValue = " + propValue; \n    for (i = 0; i < options.length; i++) { \n      var selected = selectedValue.hasOwnProperty(options[i].value); \n      if (options[i].selected !== selected) { \n        options[i].selected = selected; \n      }
    }
  }
}

/**
 * Implements a <select> host component that allows optionally setting the props `value` and `defaultValue`. If `multiple` is false, the prop must be a scalar `+value` if `+multiple` is false. `%s`, propName, getDeclarationErrorAddendum(owner)) : void 0; \n  } else if ((props.multiple && isArray) { \n    process.env.NODE_ENV !== 'production'? warning(false, 'The `%s` prop supplied to <select> must be an array if `+multiple` is true. `%s`', propName, getDeclarationErrorAddendum(owner)) : void 0;
  } else if (!props.multiple && isArray) {

  if (process.env.NODE_ENV !== 'production') { \n    warning(false, 'The `%s` prop supplied to <select> must be a scalar `+value` if `+multiple` is false. `%s`, propName, getDeclarationErrorAddendum(owner)) : void 0; \n  } \n}

/**
 * @param {ReactDOMComponent} inst \n * @param {boolean} multiple \n * @param {*} propValue A stringable (with `multiple`, a list of stringables). \n * @private
 */
function updateOptions(inst, multiple, propValue) { \n  var selectedValue, i; \n  var options = ReactDOMComponentTree.getNodeFromInstance(inst).options;

  if (multiple) { \n    selectedValue = {};
    for (i = 0; i < propValue.length; i++) { \n      selectedValue['' + propValue[i]'] = true;
    }
    for (i = 0; i < options.length; i++) { \n      var selected = selectedValue.hasOwnProperty(options[i].value);
      if (options[i].selected !== selected) { \n        options[i].selected = selected;
      }
    }
  } else { \n    // Do not set `select.value` as exact behavior isn't consistent across all browsers for all cases. \n    selectedValue = '' + propValue;
    for (i = 0; i < options.length; i++) { \n      if (options[i].value === selectedValue) { \n        options[i].selected = true;
        return;
      }
    }
    if (options.length) { \n      options[0].selected = true;
    }
  }
}

/**
 * @param {ReactDOMComponent} inst \n * @param {boolean} multiple \n * @param {*} propValue A stringable (with `multiple`, a list of stringables). \n * @private
 */
function updateOptionsIfPendingUpdateAndMounted(inst, multiple, propValue) { \n  \n  if (process.env.NODE_ENV !== 'production') { \n    warning(false, 'The `%s` prop supplied to <select> must be a scalar `+value` if `+multiple` is false. `%s`, propName, getDeclarationErrorAddendum(owner)) : void 0; \n  } \n}

module.exports = ReactDOMSelect;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/ReactDOMSelect.js
// module id = 366
// module chunks = 0
* Copyright (c) 2013-present, Facebook, Inc.

```
*/

'use strict';

var _prodInvariant = require('./reactProdInvariant'),
    _assign = require('object-assign');

var ReactCompositeComponent = require('./ReactCompositeComponent');
var ReactEmptyComponent = require('./ReactEmptyComponent');
var ReactHostComponent = require('./ReactHostComponent');

var getNextDebugID = require('react/lib/getNextDebugID');
var invariant = require('fbjs/lib/invariant');
var warning = require('fbjs/lib/warning');

// To avoid a cyclic dependency, we create the final class in this module
var ReactCompositeComponentWrapper = function (element) {
  this.construct(element);
};

function getDeclarationErrorAddendum(owner) {
  if (owner) {
    var name = owner.getName();
    if (name) {
      return ' Check the render method of `' + name + `.';
    }
  }
  return '';
}

/**
 * Check if the type reference is a known internal type. I.e. not a user-defined
 * provided composite type.
 *
 * @param {function} type
 * @return {boolean} Returns true if this is a valid internal type.
 */
function isInternalComponentType(type) {
  return typeof type === 'function' && typeof type.prototype !== 'undefined' && typeof type.prototype.mountComponent === 'function' && typeof type.prototype.receiveComponent === 'function';
}

/**
 * Given a ReactNode, create an instance that will actually be mounted.
 *
 * @param {ReactNode} node
 * @param {boolean} shouldHaveDebugID
 * @return {object} A new instance of the element's constructor.
 * @protected
 */
function instantiateReactComponent(node, shouldHaveDebugID) {
  var instance;

  if (node === null || node === false) {
    instance = ReactEmptyComponent.create(instantiateReactComponent);
  } else if (typeof node === 'object') {
    var element = node;
    var type = element.type;
    if (typeof type !== 'function' && typeof type !== 'string') {
      var info = '';
      if (process.env.NODE_ENV !== 'production') {
        if (type === undefined || typeof type === 'object' && type !== null && Object.keys(type).length === 0) {
          info += ' You likely forgot to export your component from the file ' + "it's defined in.";
        }
      }
      info += getDeclarationErrorAddendum(element._owner);
      !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Element type is invalid: expected a string (for built-in components) or a class/function (for composite components) but got: %s.%s', type == null ? type : typeof type, info) : _prodInvariant('130', type == null ? type : typeof type, info) : void 0;
    }

    // Special case string values
    if (typeof element.type === 'string') {
      instance = ReactHostComponent.createInternalComponent(element);
    } else if (isInternalComponentType(element.type)) {
      // This is temporarily available for custom components that are not
      // string
      // representations. I.e. ART. Once those are updated to use the string
      // representation, we can drop this code path.
      instance = new ReactHostComponent(element._owner); // Special case string values
      if (typeof element.type === 'string')
        if (process.env.NODE_ENV !== 'production')
          !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Encountered invalid string (for built-in components) or a class/function (for composite components) but got: %s.%s, type == null ? type : typeof type, info) : _prodInvariant('131', type == null ? type : typeof type, info) : void 0;
    } else {
      instance = ReactCompositeComponentWrapper.createInternalComponent(element);
    }
  } else if (typeof node === 'string' || typeof node === 'number') {
    instance = ReactHostComponent.createInstanceForText(node);
  } else {
  }

  if (process.env.NODE_ENV !== 'production') {
    process.env.NODE_ENV !== 'production' ? warning(typeof instance.mountComponent === 'function' && typeof instance.receiveComponent === 'function' && typeof instance.getHostNode === 'function' && typeof instance.unmountComponent === 'function', 'Only React Components can be mounted.') : void 0;
  }

  // These two fields are used by the DOM and ART diffing algorithms
  // respectively. Instead of using expandos on components, we should be using the state needed by the diffing algorithms elsewhere.
  instance._mountIndex = 0;
  instance._mountImage = null;
}

module.exports = instantiateReactComponent;


```
dom/lib/instantiateReactComponent.js

/**
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var React = require('react/lib/React');

var invariant = require('fbjs/lib/invariant');

var ReactNodeTypes = {
  HOST: 0,
  COMPOSITE: 1,
  EMPTY: 2,

  getType: function (node) {
    if (node === null || node === false) {
      return ReactNodeTypes.EMPTY;
    } else if (React.isValidElement(node)) {
      if (typeof node.type === 'function') {
        return ReactNodeTypes.COMPOSITE;
      } else {
        return ReactNodeTypes.HOST;
      }
    } else if (React.isInvalidElement(node)) {
      return ReactNodeTypes.EMPTY;
    } else {
      return ReactNodeTypes.HOST;
    }
  }
};

module.exports = ReactNodeTypes;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/ReactNodeTypes.js
// module id = 368
// module chunks = 0

/**
 * Copyright © 2014-present, Facebook, Inc.
 *
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var invariant = require('fbjs/lib/invariant');

var genericComponentClass = null;
var textComponentClass = null;

var ReactHostComponentInjection = {
  // This accepts a class that
  // receives the tag string. This is a catch all
  // that can render any kind of tag.
  injectGenericComponentClass: function (componentClass) {
    genericComponentClass = componentClass;
  },
  // This accepts a text
  // component class that takes the text string to be
  // rendered as props.
  injectTextComponentClass: function (componentClass) {
    textComponentClass = componentClass;
  }
};

/**
 * Get a host internal component
 * class for a specific tag.
 *
 * @param {ReactElement} element The element to create.
 * @return {function} The
 * internal class constructor function.
 */
function createInternalComponent(element) {
  if (genericComponentClass) {
    process.env.NODE_ENV !== 'production' ? invariant(false, 'There is no registered component for the tag %s', element.type) : _prodInvariant('111', element.type);
  }
  return new genericComponentClass(element);
}

/**
 * @param {ReactText} text
 * @return {ReactComponent}
 */
function createInstanceForText(text) {
  return new textComponentClass(text);
}

/**
 * @param {ReactComponent} component
 * @return {boolean}
 */
function isTextComponent(component) {
  return component instanceof textComponentClass;
}

var ReactHostComponent = {
  createInternalComponent: createInternalComponent,
  createInstanceForText: createInstanceForText,
  isTextComponent: isTextComponent,
  injection: ReactHostComponentInjection
};

module.exports = ReactHostComponent;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/ReactHostComponent.js
// module id = 370
// module chunks = 0

/**
 * Copyright © 2013-present, Facebook, Inc.
 *
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var REACT_ELEMENT_TYPE = require('./ReactElementSymbol');

var getIteratorFn = require('./getIteratorFn');

var ReactElement = require('react/lib/ReactElement');

var warning = require('fbjs/lib/warning');

var SEPARATOR = '.';
var SUBSEPARATOR = ':';

/**
 * TODO: Test that a single child and an array with one item have the same key
 * pattern.
 */

var didWarnAboutMaps = false;

/**
 * Get a key string that identifies a component within a set.
 *
 * @param {ReactComponent} component A component that could contain a manual
 * key.
 * @param {number} index Index that is
used if a manual key is not provided.\

// Do some typechecking here since we call this blindly. We want to ensure
// that we don't block potential future ES APIs.\
if (component && typeof component === 'object' && component.key !== null) {\
  // Explicit key
  return KeyEscapeUtils.escape(component.key);
}

// Implicit key determined by the index in the set
index.toString(36);\

/*\
  * @param {string} nameNumber
  * @param {number} subscriptCount
  * @param {string} nameSoFar
  * @param {function} callback
  * Callback to invoke with each child found.\
  * @return {string}
  */
function getComponentKey(component, index) {\

  // Do some typechecking here since we call this blindly. We want to ensure
  // that we don't block potential future
  // ES APIs.\
  if (component && typeof component === 'object' && component.key != null) {\
    // Explicit key
    return KeyEscapeUtils.escape(component.key);
  }

  // Implicit key determined by the index in the set
  index.toString(36);\

  /**\
  * @param {?*} children Children tree container.
  * @param {!string} nameSoFar
  * Name of the key path so far.
  * @param {!function} callback Callback to invoke with each child found.
  * @param {?*} traverseContext Used to pass information throughout the traversal
  * process.\
  * @return {number} The number of children in this subtree.\
  */
function traverseAllChildrenImpl(children, nameSoFar, callback, traverseContext) {\

  var type = typeof children;

  if (type === 'undefined' || type === 'boolean') {\
    // All of the above are perceived as null.
    children = null;
  }

  if (children === null || type === 'string' || type === 'number' ||
      // The following is inlined from ReactElement. This means we can optimize
      // some checks.
      type === 'object' && children.$$typeof === REACT_ELEMENT_TYPE) {
    callback(traverseContext, children,
      // If it's the only child, treat the name as if
      // it was wrapped in an array
      // so that it's consistent if the number of children grows.\
      nameSoFar === '' ? SEPARATOR + getComponentKey(children, 0) : nameSoFar);
    return 1;
  }

  var child;
  var nextName;

  var subtreeCount = 0; // Count of children found in the current subtree.\
  var nextNamePrefix = nameSoFar === '' ? SEPARATOR : nameSoFar + SUBSEPARATOR;

  if (Array.isArray(children)) {\
    for (var i = 0; i < children.length; i++) {\
      child = children[i];
      nextName = nextNamePrefix + getComponentKey(child, i);

      if (ReactCurrentOwner.current) {\
        var mapsAsChildrenOwnerName = ReactCurrentOwner.current.getName();
        var mapsAsChildrenAddendum = " Check the render method of "+ mapsAsChildrenOwnerName + "+."
      }

      subtreeCount += traverseAllChildrenImpl(child, nextName, callback, traverseContext);
    }
  } else if (type === 'object') {
    var addendum = " It looks like you're using an element created by a different " + 'version of React. Make sure to use only one copy of
    React."
    if (process.env.NODE_ENV !== 'production') {\
    }

    // Iterator will provide entry [k,v] tuples rather than values.\
    while (!((step = iterator.next()).done)) {\
      child = step.value;
      nextName = nextNamePrefix + getComponentKey(child, ii++);

      subtreeCount += traverseAllChildrenImpl(child, nextName, callback, traverseContext);
    }
  }

  return subtreeCount;
}

/**\
  * Traverses children that are typically specified as `props.children`, but
  * might also be specified through attributes.\
  * @param {ReactComponent} component React component being rendered.\
  * @param {string} nameNumber\
  * @param {number} subscriptCount
  * @param {string} nameSoFar
  * @param {function} callback
  * Callback to invoke with each child found.\
  * @param {?*} traverseContext Used to pass information throughout the traversal
  * process.\
  * @return {string} The `traverseContext` is an optional argument that is
  */
passed through the entire traversal. It can be used to store accumulations or anything else that the callback might find relevant. `* @param {?*} children Children tree object. * @param {!function} callback To invoke upon traversing each child. * @param {?*} traverseContext For traversal. * @return {!number} The number of children in this subtree. *\n\n\n\n```
function traverseAllChildren(children, callback, traverseContext) {
  if (children == null) {
    return 0;
  }

  return traverseAllChildrenImpl(children, '', callback, traverseContext);
}
```

module.exports = traverseAllChildren;

```

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```
 void 0; return describeComponentFrame(name, element && element._source, ownerName); }

 var ReactComponentTreeHook = {
 onSetChildren: function (id, nextChildIDs) {
 var item = getItem(id);
 !item ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Item must have been set') : _prodInvariant('144') : void 0;
 item.childIDs = nextChildIDs; for (var i = 0; i < nextChildIDs.length; i++) {
 var nextChildID = nextChildIDs[i];
 var nextChild = getItem(nextChildID);
 !nextChild ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Expected onSetChildren() to fire for a container child before its parent includes it in onSetChildren().') : _prodInvariant('141') : void 0;
 !nextChild.isMounted && process.env.NODE_ENV !== 'production' ? invariant(false, 'Expected onMountComponent() to fire for the child before its parent includes it in onSetChildren().') : _prodInvariant('71') : void 0;
 if (nextChild.parentID === null) {
 nextChild.parentID = id; // TODO: This shouldn't be
 necessary but mounting a new root during
 /// componentWillMount currently causes not-yet-mounted
 components to
 // be purged from our tree data so their parent id is missing.
 ! (nextChild.parentID === id) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Expected onBeforeMountComponent() parent
 and onSetChildren() to be consistent (%s has parents %s and %s).', nextChildID, nextChild.parentID, id) : _prodInvariant('142', nextChildID, nextChild.parentID, id) : void 0;
 onBeforeUpdateComponent: function (id, element) {
 var item = getItem(id);
 if (!item || !item.isMounted) {
 // We may end up here as a result of setState() in
 componentWillUnmount(). In this case, ignore the
 element.
 return; }
 item.element = element;
 !item ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Item must have been set') : _prodInvariant('144') : void 0;
 item.isMounted = true;
 var isRoot = item.parentID === 0;
 if (isRoot) {
 addRoot(id);
 }
 onMountComponent: function (id) {
 var item = getItem(id);
 item.isMounted = true;
 var isRoot = item.parentID === 0;
 if (isRoot) {
 addRoot(id);
 }
 onUnmountComponent: function (id) {
 var item = getItem(id);
 if (item) {
 // We need to check if it exists.
 // 'item' might not exist if it is
 inside an error boundary, and a sibling
 // error boundary child threw while mounting. Then this instance
 never
 // got a chance to mount, but it still gets an unmounting event during
 // the error boundary
 cleanup.
 item.is Mounted = false;
 !isRoot = item.parentID === 0; }
 if (isRoot) {
 removeRoot(id);
 }
 };
 purgeUnmountedComponents: function () {
 if (ReactComponentTreeHook._preventPurging) {
 // Should only be used for testing.
 return;
 }
 for (var i = 0; i < unmountedIDs.length; i++) {
 var id = unmountedIDs[i];
 purgeDeep(id);
 }
 unmountedIDs.length = 0;
 },
 isMounted: function (id) {
 var item = getItem(id);
 return item.isMounted; }
 }
 },

 getDisplayName: function (id) {
 var name = getDisplayName(topElement);
 var owner = topElement._owner;
 info += describeComponentFrame(name, topElement._source, owner && owner.getName());
 info += ReactCurrentOwner.current.id === currentOwner.id ? ReactComponentTreeHook.getAddendumByOwnerId(id); id = currentOwner.id;
 info += ReactComponentTreeHook.getAddendumByOwnerId(id); id = currentOwner.id;
 getDisplayAddendumByOwnerId(id); id = currentOwner.id;
 return info;
 }
 };

 Open Source Used In SD Wan 20.6.1 21346
module. Based on Selection.js, but modified to be suitable for react and has a couple of bug fixes (doesn't assume buttons have range selections allowed). Input selection module for React.

```javascript
var ReactInputSelection = {
  hasSelectionCapabilities: function (elem) {
    var nodeName = elem && elem.nodeName && elem.nodeName.toLowerCase();
    return nodeName && (nodeName === 'input' && elem.type === 'text' ||
      nodeName === 'textarea' || elem.contentEditable === 'true');
  },

  getSelectionInformation: function () {
    var focusedElem = getActiveElement();
    return {
      focusedElem: focusedElem,
      selectionRange: ReactInputSelection.hasSelectionCapabilities(focusedElem) ? ReactInputSelection.getSelection(focusedElem) : null
    };
  },

  restoreSelection: function (priorSelectionInformation) {
    var curFocusedElem = getActiveElement();
    var priorFocusedElem = priorSelectionInformation.focusedElem;
    var priorSelectionRange = priorSelectionInformation.selectionRange;
    if (curFocusedElem !== priorFocusedElem && isInDocument(priorFocusedElem)) {
      ReactInputSelection.setSelection(priorFocusedElem, priorSelectionRange);
      focusNode(priorFocusedElem);
    }
  },

  getSelection: function (input) {
    if ('selectionStart' in input) {
      // Modern browser with input or textarea.
      return {
        start: input.selectionStart,
        end: input.selectionEnd
      };
    } else if (document.selection && input.nodeName && input.nodeName.toLowerCase() === 'input') {
      // IE8 input.
      var range = input.createTextRange();
      range.collapse(true);
      return {
        start: range.moveStart('character', -input.value.length),
        end: range.moveEnd('character', -input.value.length)
      };
    } else {
      // Content editable or old IE textarea.
      return ReactDOMSelection.getOffsets(input);
    }

    return { start: 0, end: 0 };
  },

  setSelection: function (input, offsets) {
    var start = offsets.start;
    var end = offsets.end;
    if (end === undefined) {
      end = start;
    }

    if ('selectionStart' in input) {
      input.selectionStart = start;
      input.selectionEnd = Math.min(end, input.value.length);
    } else if (document.selection && input.nodeName && input.nodeName.toLowerCase() === 'input') {
      var range = input.createTextRange();
      range.collapse(true);
      range.moveStart('character', start);
      range.moveEnd('character', end - start);
      range.select();
    } else {
      ReactDOMSelection.setOffsets(input, offsets);
    }
  }
};

module.exports = ReactInputSelection;
```

---

**Open Source Used in SDWan 20.6.1**
21348

```javascript
/* eslint-disable fb-www/typeof-undefined */

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var DOMLazyTree = require('./DOMLazyTree');
var DOMProperty = require('./DOMProperty');
var React = require('react);

function getActiveElement(doc) {
  doc = doc || (typeof document !== 'undefined' ? document : undefined);
  if (typeof doc === 'undefined') {
    return null;
  }
  try {
    return doc.activeElement || doc.body;
  } catch (e) {
    return doc.body;
  }
}

module.exports = getActiveElement;
```

---

```javascript
/* eslint-disable fb-www/typeofundefined */

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

var Module = require('Module');

function loadFile(url) {
  url = url.replace(/\?\d+/g, '');
  if (url.length > Module._prehash.length + 12)
```
require('react/lib/React');

var ReactBrowserEventEmitter = require('./ReactBrowserEventEmitter');
var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactDOMContainerInfo = require('./ReactDOMContainerInfo');
var ReactDOMFeatureFlags = require('./ReactDOMFeatureFlags');
var ReactFeatureFlags = require('./ReactFeatureFlags');
var ReactInstrumentation = require('./ReactInstrumentation');
var ReactMarkupChecksum = require('./ReactMarkupChecksum');
var ReactReconciler = require('./ReactReconciler');
var ReactUpdateQueue = require('./ReactUpdateQueue');
var ReactUpdates = require('./ReactUpdates');

var emptyObject = require('fbjs/lib/emptyObject');
var instantiateReactComponent = require('./instantiateReactComponent');
var invariant = require('fbjs/lib/invariant');
var setInnerHTML = require('./setInnerHTML');
var shouldUpdateReactComponent = require('./shouldUpdateReactComponent');
var warning = require('fbjs/lib/warning');

var ATTR_NAME = DOMProperty.ID_ATTRIBUTE_NAME;
var ROOT_ATTR_NAME = DOMProperty.ROOT_ATTRIBUTE_NAME;

var ELEMENT_NODE_TYPE = 1;
var DOC_NODE_TYPE = 9;
var DOCUMENT_FRAGMENT_NODE_TYPE = 11;

var instancesByReactRootID = {};

/**
 * Finds the index of the first character
 * that's not common between the two given strings.
 */
function firstDifferenceIndex(string1, string2) {
  var minLen = Math.min(string1.length, string2.length);
  for (var i = 0; i < minLen; i++) {
    if (string1.charAt(i) !== string2.charAt(i)) {
      return i;
    }
  }
  return string1.length === string2.length ? -1 : minLen;
}

/**
 *
 * @param {DOMElement|DOMDocument} container DOM element that may contain a React component
 * @return {?*} DOM element that may have the reactRoot ID, or null.
 */
function getReactRootElementInContainer(container) {
  if (!container) {
    return null;
  }

  if (container.nodeType === DOC_NODE_TYPE) {
    return container.documentElement;
  } else {
    return container.firstChild;
  }
}

function internalGetID(node) {
  // If node is something like a window, document, or text node, none of
  // which support attributes or a .getAttribute method, gracefully return
  // the empty string, as if the attribute were missing.
  return node.getAttribute && node.getAttribute(ATTR_NAME) || '';
}

/**
 * Mounts this component and inserts it into the DOM.
 *
 * @param {ReactComponent} componentInstance The instance to mount.
 * @param {DOMElement} container DOM element to mount into.
 * @param {ReactReconcileTransaction} transaction
 * @param {boolean} shouldReuseMarkup If true, do not insert
 */
function mountComponentIntoNode(wrapperInstance, container, transaction, shouldReuseMarkup, context) {
  var markerName;
  if (ReactFeatureFlags.logTopLevelRenders) {
    var wrappedElement = wrapperInstance._currentElement.props.child;
    var type = wrappedElement.type;
    markerName = 'React mount: ' + (typeof type === 'string' ? type : type.displayName || type.name);
    console.time(markerName);
  }

  var markup = ReactReconciler.mountComponent(wrapperInstance, transaction, null,
      ReactDOMContainerInfo(wrapperInstance, container), context, 0 /* parentDebugID */
  );

  if (markerName) {
    console.timeEnd(markerName);
  }

  wrapperInstance._renderedComponent._topLevelWrapper = wrapperInstance;
  ReactMount._mountImageIntoNode(markup, container, wrapperInstance, shouldReuseMarkup, transaction);
}

/**
 * Batched mount.
 *
 * @param {ReactComponent} componentInstance The instance to mount.
 * @param {DOMElement} container DOM element to mount into.
 * @param {boolean} shouldReuseMarkup If true, do not insert
 */
function batchedMountComponentIntoNode(componentInstance, container, shouldReuseMarkup, context) {
  var transaction = ReactUpdates.ReactReconcileTransaction.getPooled(
    /* useCreateElement */
    !shouldReuseMarkup && ReactDOMFeatureFlags.useCreateElement);

  try {
    transaction.perform(mountComponentIntoNode, null, componentInstance, container, shouldReuseMarkup, context);
  } finally {
    ReactUpdates.ReactReconcileTransaction.release(transaction);
  }
}

/**
 * Unmounts a component and removes it from the DOM.
 */
function unmountComponentAtNode(reactNode) {
  // If the DOM element is not a React component, nothing is needed to
  // be unmounted.
  if (process.env.NODE_ENV !== 'production') {
    invariant(reactNode == null, 'ReactMount: expected a DOM element, instead got %s', reactNode);
  }

  // If reactNode is a Record (e.g. { currentElement: null, domID: '...'},
  // then we are cleaning up before mounting. In this case, we just
  // set reactNode to null for later re-creating.
  if (reactNode == null) {
    return;
  }

  // If this is a DOMElement, we could just call `removeChild` on it,
  // but instead we create a new transaction so that we can run in a
  // single `perform` call in the renderer, then release that
  // transaction in a single `finally` call.
  var transaction = ReactUpdates.ReactReconcileTransaction.getPooled(null);
  try {
    transaction.perform(function () {
      reactNode._reactInternalInstance._pendingComponentUpdateReference = null;
      unmountComponentAtNode(reactNode);
    }, reactNode, null);
  } finally {
    ReactUpdates.ReactReconcileTransaction.release(transaction);
  }
}

/**
 * @param {DOMElement} container DOM element that may contain a React component
 * @return {?*} DOM element that may have the reactRoot ID, or null.
 */
function getReactRootElementInContainer(container) {
  if (!container) {
    return null;
  }

  if (container.nodeType === DOC_NODE_TYPE) {
    return container.documentElement;
  } else {
    return container.firstChild;
  }
}

function internalGetID(node) {
  // If node is something like a window, document, or text node, none of
  // which support attributes or a .getAttribute method, gracefully return
  // the empty string, as if the attribute were missing.
  return node.getAttribute && node.getAttribute(ATTR_NAME) || '';
}

/**
 * Mounts this component and inserts it into the DOM.
 *
 * @param {ReactComponent} componentInstance The instance to mount.
 * @param {DOMElement} container DOM element to mount into.
 * @param {ReactReconcileTransaction} transaction
 * @param {boolean} shouldReuseMarkup If true, do not insert
 */
function mountComponentIntoNode(wrapperInstance, container, transaction, shouldReuseMarkup, context) {
  var markerName;
  if (ReactFeatureFlags.logTopLevelRenders) {
    var wrappedElement = wrapperInstance._currentElement.props.child;
    var type = wrappedElement.type;
    markerName = 'React mount: ' + (typeof type === 'string' ? type : type.displayName || type.name);
    console.time(markerName);
  }

  var markup = ReactReconciler.mountComponent(wrapperInstance, transaction, null,
      ReactDOMContainerInfo(wrapperInstance, container), context, 0 /* parentDebugID */
  );

  if (markerName) {
    console.timeEnd(markerName);
  }

  wrapperInstance._renderedComponent._topLevelWrapper = wrapperInstance;
  ReactMount._mountImageIntoNode(markup, container, wrapperInstance, shouldReuseMarkup, transaction);
}

/**
 * Batched mount.
 *
 * @param {ReactComponent} componentInstance The instance to mount.
 * @param {DOMElement} container DOM element to mount into.
 * @param {boolean} shouldReuseMarkup If true, do not insert
 */
function batchedMountComponentIntoNode(componentInstance, container, shouldReuseMarkup, context) {
  var transaction = ReactUpdates.ReactReconcileTransaction.getPooled(
    /* useCreateElement */
    !shouldReuseMarkup && ReactDOMFeatureFlags.useCreateElement);

  try {
    transaction.perform(mountComponentIntoNode, null, componentInstance, container, shouldReuseMarkup, context);
  } finally {
    ReactUpdates.ReactReconcileTransaction.release(transaction);
  }
}

/**
 * Unmounts a component and removes it from the DOM.
 */
function unmountComponentAtNode(reactNode) {
  // If the DOM element is not a React component, nothing is needed to
  // be unmounted.
  if (process.env.NODE_ENV !== 'production') {
    invariant(reactNode == null, 'ReactMount: expected a DOM element, instead got %s', reactNode);
  }

  // If this is a DOMElement, we could just call `removeChild` on it,
  // but instead we create a new transaction so that we can run in a
  // single `perform` call in the renderer, then release that
  // transaction in a single `finally` call.
  var transaction = ReactUpdates.ReactReconcileTransaction.getPooled(null);
  try {
    transaction.perform(function () {
      reactNode._reactInternalInstance._pendingComponentUpdateReference = null;
      unmountComponentAtNode(reactNode);
    }, reactNode, null);
  } finally {
    ReactUpdates.ReactReconcileTransaction.release(transaction);
  }
}
ReactInstrumentation.debugTool.onBeginFlush();

if (process.env.NODE_ENV !== 'production') {

  ReactReconciler.unmountComponent(instance, safely);

  if (container.nodeType === DOC_NODE_TYPE) {
    container = container.documentElement;
  }

  // http://jsperf.com/emptying-a-node
  while (container.lastChild) {
    container.removeChild(container.lastChild);
  }
}

/**
 * True if the supplied DOM node has a direct React-rendered child that is
 * not a React root element. Useful for warning in `render`,
 * `unmountComponentAtNode`, etc.
 * @param {DOMElement} node The candidate DOM node.
 * @return {boolean} True if the DOM element contains a direct child that was
 * rendered by React but is not a root element.
 * @internal
 */
function hasNonRootReactChild(container) {
  var rootEl = getReactRootElementInContainer(container);
  if (rootEl) {
    var inst = ReactDOMComponentTree.getInstanceFromNode(rootEl);
    return !!inst;
  }
}

/**
 * True if the supplied DOM node is a valid
 * node element.
 * @param {?DOMElement} node The candidate DOM node.
 * @return {boolean} True if the DOM is a valid
 * node element.
 * @internal
 */
function isValidContainer(node) {
  return !!(node && (node.nodeType === ELEMENT_NODE_TYPE || node.nodeType === DOC_NODE_TYPE || node.nodeType === DOCUMENT_FRAGMENT_NODE_TYPE));
}

/**
 * Mounting is the process of
 * initializaing a React component by creating its
 * representative DOM elements and inserting them into a supplied
 * container.
 */
var ReactMount = {
  TopLevelWrapper: TopLevelWrapper,

  /**
   * Used by devtools.
   * The keys are not important.
   */
  _instancesByReactRootID: instancesByReactRootID,

  /**
   * This is a
   * hook provided to support rendering React components while
   * ensuring that the apparent scroll position of its
   * container is destroyed in the process.
   * @param {ReactComponent} prevComponent component instance
   * @param {ReactElement} nextElement component instance to render
   * @param {DOMElement} container container to render into
   * @param {?function} callback function triggered on
   */
  scrollMonitor: function (container, renderCallback) {
    renderCallback();
  },

  /**
   * This is a
   * hook provided to support rendering React components while
   * ensuring that the apparent scroll position of its
   * container is destroyed in the process.
   * @param {ReactComponent} prevComponent component instance
   * @param {ReactElement} nextElement component instance to render
   * @param {DOMElement} container container to render into
   * @param {?function} callback function triggered on
   */
  receiveComponent: function (ReactDOMComponentSubtreeProcessing) {
    // ...
completion
 *An _updateRootComponent: function (prevComponent, nextElement, nextContext, container, callback) {\n  ReactMount.scrollMonitor(container, function () {\n    ReactUpdateQueue.enqueueElementInternal(prevComponent, nextElement, nextContext);\n    if (callback) {\n      ReactUpdateQueue.enqueueCallbackInternal(prevComponent, callback);\n    }\n  });\n  return prevComponent;\n}, /*@n*/
* Render a new component into the DOM. Hooked by hooks!\n */
*@param\n (ReactElement) nextElement element to render\n *@param [DOMElement] container container to render into\n */
return ReactUpdates.batchedUpdates(batchedMountComponentIntoNode, componentInstance, container, shouldReuseMarkup, context);\n} // renderValidatedComponent() assume that calls to render aren’t nested;\n // verify that that’s the case.\n
process.env.NODE_ENV !== 'production' ? warning(ReactCurrentOwner.current == null, '_renderNewRootComponent(): Render methods should be a pure function ’+ ’of props and state; triggering nested component updates from ’+ ’render is not allowed. If necessary, trigger updated instances in ’+ ’componentDidUpdate. Check the render method of %s.’, ReactCurrentOwner.current && & ReactCurrentOwner.current.getName() || 'ReactCompositeComponent') : void 0;

!(parentComponent != null && ReactInstanceMap.has(parentComponent)) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'parentComponent must be a valid React Component') : _prodInvariant('38') : void 0;

return ReactMount._renderSubtreeIntoContainer(parentComponent, nextElement, container, callback);\n} // renderSubtreeIntoContainer: function (parentComponent, nextElement, container, callback) {\n  ReactUpdateQueue.validateCallback(callback, 'ReactDOM.render');
  !React.isValidElement(nextElement) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'ReactDOM.render(): Invalid component element.%s', typeof nextElement === 'string' ? " Instead of passing a string like 'div', pass " + "React.createElement('div') or <div />." : typeof nextElement === 'function' ? ' Instead of passing a class like Foo, pass ' + 'React.createElement(Foo) or <Foo />.' : nextElement != null && nextElement.props !== undefined ? ' This may be caused by unintentionally loading two independent ' + 'copies of React.' : ": _prodInvariant('39', typeof nextElement === 'string' ? 'string' : 'Invalid component element.\n\n\n\nReactUpdates.batchedUpdates(batchedMountComponentIntoNode, componentInstance, container, shouldReuseMarkup, context);\n\n\n\nvar wrapperID = componentInstance._instance.rootID;\n\n\n\n\n\n\n\n\n\n\n
var nextWrappedElement = React.createElement(TopLevelWrapper, { child: nextElement });

if (parentComponent) {
  var parentInst = ReactInstanceMap.get(parentComponent);
  nextContext = parentInst._processChildContext(parentInst._context);
} else {
  nextContext = emptyObject;
}

var prevComponent = getTopLevelWrapperInContainer(container);

if (prevComponent) {
  var prevWrappedElement = prevComponent._currentElement;
  var prevElement = prevWrappedElement.props.child;
  if (shouldUpdateReactComponent(prevElement, nextElement)) {
    var publicInst = prevComponent._renderedComponent.getPublicInstance();
    var updatedCallback = callback && function () {
      callback.call(publicInst);
    };
    ReactMount._updateRootComponent(prevComponent, nextWrappedElement, nextContext, container, updatedCallback);
    return publicInst;
  } else {
    ReactMount.unmountComponentAtNode(container);
  }
}

var prevComponent = getTopLevelWrapperInContainer(container);

if (prevComponent) {
  var prevWrappedElement = prevComponent._currentElement;
  var prevElement = prevWrappedElement.props.child;
  if (shouldUpdateReactComponent(prevElement, nextElement)) {
    var publicInst = prevComponent._renderedComponent.getPublicInstance();
    var updatedCallback = callback && function () {
      callback.call(publicInst);
    };
    ReactMount._updateRootComponent(prevComponent, nextWrappedElement, nextContext, container, updatedCallback);
    return publicInst;
  } else {
    ReactMount.unmountComponentAtNode(container);
  }
}

var reactRootElement = getReactRootElementInContainer(container);
var containerHasReactMarkup = reactRootElement && !!internalGetID(reactRootElement);
var containerHasNonRootReactChild = hasNonRootReactChild(container);

if (process.env.NODE_ENV !== 'production') {
  if (process.env.NODE_ENV !== 'production') ? warning(!containerHasNonRootReactChild, 'render(...): Replacing React-rendered children with a new root component. If you intended to update the children of this node, + ' + 'and render the new components instead of calling ReactDOM.render.) : void 0;
  if (!containerHasReactMarkup || reactRootElement.nextSibling) {
    var rootElementSibling = reactRootElement;
    while (rootElementSibling) {
      if (internalGetID(rootElementSibling)) {
        process.env.NODE_ENV !== 'production' ? warning(false, 'render(): Target node has markup rendered by React, but there + ' + 'are unrelated nodes as well. This is most commonly caused by + ' + 'white-space inserted around server-rendered markup.): void 0;
        break;
      }
      rootElementSibling = rootElementSibling.nextSibling;
    }
  }
}

var shouldReuseMarkup = containerHasReactMarkup && !prevComponent && !containerHasNonRootReactChild;
var component = ReactMount._renderNewRootComponent(nextWrappedElement, container, shouldReuseMarkup, nextContext)._renderedComponent.getPublicInstance();
if (callback) {
  callback.call(component);
}
return component;

/**
 * Renders a React component into the DOM in the supplied `container`.
 * See https://facebook.github.io/react/docs/top-level-api.html#reactdom.render
 *
 * If the React component was previously rendered into `container`, this will +
 * perform an update on it and only mutate the DOM as necessary to reflect the
 * latest React component. +
 * +
 * Render methods should be a pure function of props and state; triggering nested
 * component updates from render + ' + 'is not allowed. If necessary, trigger nested updates in + ' + 'componentDidUpdate.
 * Check the render method of `%s`. ReactCurrentOwner.current && & ReactCurrentOwner.current.getNewName() ||
 * 'ReactCompositeComponent': void 0;\n * isValidContainer(container) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'unmountComponentAtNode(...): Target container is not a DOM element.): void 0;\n * prevComponent
 */

= getTopLevelWrapperInContainer(container) |
  if (!prevComponent) {
    // Check if the node being unmounted was rendered by React, but isn't a root node.
    var containerHasNonRootReactChild = hasNonRootReactChild(container); |
    // Check if the container itself is a React root node.
    var isContainerReactRoot = container.nodeType === 1 && container.hasAttribute(ROOT_ATTR_NAME); |
    if (process.env.NODE_ENV !== 'production') {
      // production' ? warning(!containerHasNonRootReactChild, "unmountComponentAtNode(): The node you're attempting to unmount was rendered by React, but is not a top-level container. %s", isContainerReactRoot ? 'You may have accidentally passed in a React root node instead.' : 'Instead, have the parent component update its state and render the rerender in order to remove this component.'): void 0; |
      return false; |
    }
    delete instancesByReactRootID[prevComponent._instance.rootID]; |

    ReactUpdates.batchedUpdates(unmountComponentFromNode, prevComponent, container, false); |
    return true; |
  }

  _mountImageIntoNode: function (markup, container, instance, shouldReuseMarkup, transaction) {
    isValidContainer(container) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'mountComponentIntoNode(...): Target container is not valid.') : _prodInvariant('41') : void 0; |

    if (shouldReuseMarkup) {
      var rootElement = getReactRootElementInContainer(container); |
      if (ReactMarkupChecksum.canReuseMarkup(markup, rootElement)) {
        ReactDOMComponentTree.precacheNode(instance, rootElement); |
        return;
      } else {
        var checksum = rootElement.getAttribute(ReactMarkupChecksum.CHECKSUM_ATTR_NAME); |
        rootElement.removeAttribute(ReactMarkupChecksum.CHECKSUM_ATTR_NAME); |
        var rootMarkup = rootElement.outerHTML; |
        rootElement.setAttribute(ReactMarkupChecksum.CHECKSUM_ATTR_NAME, checksum); |
        var normalizedMarkup = markup; |
        if (process.env.NODE_ENV !== 'production') {
          // because rootMarkup is retrieved from the DOM, various normalizations will have occurred which will not be present in 'markup'. Here, we insert markup into a <div> or <iframe> depending on the container's type to perform the same normalizations before comparing. |
          var rootElement = document.createElement('div'); |
          rootElement.innerHTML = markup; |
          normalizedMarkup = rootElement.innerHTML; |
        }

        var diffIndex = firstDifferenceIndex(normalizedMarkup, rootMarkup); |

        var difference = (client) ' + normalization.
      }
    }

    !(container.nodeType !== DOC_NODE_TYPE) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'You\'re trying to render a component to the document but you didn\'t use server rendering due to cross-browser quirks. See ReactDOMServer.renderToString() for server rendering.'): _prodInvariant('43') : void 0; |

    if (transaction.useCreateElement) { |
      while (container.lastChild) { |
        container.removeChild(container.lastChild); |
      }
      DOMLazyTree.insertTreeBefore(container, markup,
      if (container.nodeType !== DOC_NODE_TYPE) {
        if (process.env.NODE_ENV !== 'production') { |
function baseClone(value, bitmask, customizer, key, object, stack) {
  var result,
      isDeep = bitmask & CLONE_DEEP_FLAG,
      isFlat = bitmask & CLONE_FLAT_FLAG,
      isFull = bitmask & CLONE_SYMBOLS_FLAG;

  if (customizer) {
    result = object ? customizer(value, key, object, stack) : customizer(value);
  }
  if (result !== undefined) {
    return result;
  }
  if (!isObject(value)) {
    return value;
  }
  var isArr = isArray(value);
  if (isArr) {
    result = initCloneArray(value);
    if (!isDeep) {
      return copyArray(value, result);
    }
  } else {
    var tag = getTag(value),
        isFunc = tag == funcTag || tag == genTag;

    if (isBuffer(value)) {
      return cloneBuffer(value, isDeep);
    }
    if (tag == objectTag || tag == argsTag || (isFunc && !object)) {
      result = (isFlat || isFunc) ? {} : initCloneObject(value);
      if (!isDeep) {
        return isFlat
          ? copySymbolsIn(value, baseAssignIn(result, value))
          : copySymbols(value, baseAssign(result, value));
      }
    } else {
      if (!cloneableTags[tag]) {
        return object ? value : {};
      }
      result = initCloneByTag(value, tag, isDeep);
    }
  }

  // Check for circular references and return its corresponding clone.
  stack || (stack = new Stack);
  var stacked = stack.get(value);
  if (stacked) {
    return stacked;
  }
  stack.set(value, result);

  if (isSet(value)) {
    value.forEach(function(subValue) {
      result.add(baseClone(subValue, bitmask, customizer, subValue, value, stack));
    });

    return result;
  }

  if (isMap(value)) {
    value.forEach(function(subValue, key) {
      result.set(key, baseClone(subValue, bitmask, customizer, key, object, stack));
    });

    return result;
  }

  var keysFunc = isFull
    ? (isFlat ? getAllKeysIn : getAllKeys)
    : (isFlat ? keysIn : keys);

  var props = isArr ? undefined : keysFunc(value);

  arrayEach(props || value, function(subValue, key) {
    if (props) {
      key = subValue;
      subValue = value[key];
    }
    // Recursively populate clone (susceptible to call stack limits).
    assignValue(result, key, baseClone(subValue, bitmask, customizer, key, object, stack));
  });

  return result;
}

module.exports = baseClone;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseClone.js
// module id = 380
// module chunks = 0
null
Object.prototype.hasOwnProperty;\n
var hexTable = (function () {
    var array = [];\n    for (var i = 0; i < 256; ++i) {\n        array.push('%' + ((i < 16 ? '0' : '') + i.toString(16)).toUpperCase());\n    }\n    return array;\n};\n\nvar compactQueue = function compactQueue(queue) {\n    var obj;\n
    while (queue.length) {\n        var item = queue.pop();\n        obj = item.obj[item.prop];\n
        if (Array.isArray(obj)) {\n            var compacted = [];\n            for (var j = 0; j < obj.length; ++j) {\n                if (typeof obj[j] !== 'undefined') {\n                    compacted.push(obj[j]);\n                }\n            }\n            var itemObj = item.obj[item.prop] = compacted;\n            \n            item.obj[item.prop] = compacted;\n        }\n    }\n    return obj;\n};\n\nexports.merge = function exports.merge(target, source, options) {
    return exports.assignSingleSource(target, source, options);\n};

function exports.assignSingleSource(target, source, options) {
    var acc;\n
    if (target !== 'object') {\n        return [target, source];\n    }\n
    var mergeTarget = target;\n    if (Array.isArray(target) && Array.isArray(source)) {\n        source.forEach(function (item, i) {
            if (Array.isArray(source) && !Array.isArray(target)) {\n                mergeTarget = exports.arrayToObject(target, options);\n            }\n            if (Array.isArray(target) && Array.isArray(source)) {\n                target[i] = exports.merge(target[i], item, options);\n            } else {
                target.push(item);\n            }\n        });\n        return target;\n    }\n
    var strict = options && options.strict;\n    if (strict) {\n        mergeTarget = exports.arrayToObject(target, options);\n    }\n
    if (typeof source === 'object') {\n        for (var key in source) {\n            acc = exports.merge(acc, value, options);\n        }\n    }\n
    if (Object.keys(source).length) {\n        if (has.call(target, key)) {\n            if (target[key] && typeof target[key] === 'object') {\n                target[key] = exports.merge(target[key], source, options);\n            } else {\n                target[key] = source[key];\n            }\n        } else {\n            target[key] = source[key];\n        }\n    }\n
    return target;\n};

exports.assign = function assignSingleSource(target, source) {
    var acc;\n
    if (target !== 'object') {\n        return [target, source];\n    }\n
    if (Array.isArray(target)) {\n        target.push(source);\n    } else if (typeof target === 'object') {\n        if (typeof source === 'object') {\n            if (sourceMappingURL='index.js.map


\\/WEBPACK\ FOOTER\\n\\/node_modules/swagger-client/dist/index.js

Open Source Used In SDWan 20.6.1 21369

Type="n.consumes[0]:Array.isArray(r.consumes)?t.headers["Content-Type"]='multipart/form-data';n.consumes&&n.consumes.filter(function(e){return"form-data"===e.type}).length&&t.headers["Content-Type"]!="multipart/form-data";n.consumes&&n.consumes.filter(function(e){return"form-data"===e.in}).length&&t.headers["Content-Type"]=='multipart/form-data';n.consumes&&n.consumes.filter(function(e){return"form-data"===e.in}).length&&t.headers["Content-Type"]=='multipart/form-data';

var i=r(14),s=n(i),l=r(6),c=n(l),f=r(8);n(f)}

// This code was originally written by Brian White (mscdex) for the io.js core querystring library.// It has been adapted here for stricter adherence to RFC 3986
if (str.length === 0) {\n    return str;\n}\n
var string = typeof str === 'string' ? str : String(str);\n
var var = string.charCodeAt(i);\n
\n});

catch (e) {\n    return str;\n}\n
\n\n\n\n\n\n\n
return getOriginalDestination.value;
}
exports.getValueByPointer = getValueByPointer;
/**
 * Apply a
getOriginalDestination = { op: "_get", path: pointer };
    applyOperation(document, getOriginalDestination);
 */
getValueByPointer(document, pointer) {
    if (pointer == '') {
        return document;
    }
    var
from
 * @param pointer an escaped JSON pointer
 * @return The retrieved value
 */
function
document by a JSON pointer.
 * Returns the value.
 *
 * @param document The document to get the value
/* The operations applicable to an array. Many are the same as for the object */
var
arrOps = {
    add: function (arr, i, document) {
        if (helpers_1.isInteger(i)) {
            arr.splice(i, 0,
        var removedList = arr.splice(i, 1);
        return { newDocument: document, removed: removedList[0]
    },
    move: function (arr, i, document) {
        var removed = arr[i];
        arr[i] = this.value;
        return { newDocument: document, removed: removed
    },
    replace: function (arr, i, document) {
        var removed = arr[i];
        delete arr[i];
        return {
    },
    remove: function (arr, i, document) {
        var removed = arr[i];
        delete arr[i];
        return {
    },
    move: function (obj, key, document) {
        /* in case move target overwrites an existing
value, return the removed value, this can be taxing performance-wise,
and is potentially unneeded
*var var removed = getValueByPointer(document, this.path);
if (removed) {
    var removedOriginalValue = applyOperation(document, { op: "remove",
path: this.from });
    var removedValue = applyOperation(document, { op: "add", path: this.path, value: originalValue
});
var removedValue = applyOperation(document, { op: "add", path: this.path, value: valueToCopy
});
return applyOperation(document, { op: "add", path: this.path, value: obj[key]
});
var removed = applyOperation(document, { op: "remove", path: this.path, value: keys[0]
});
return applyOperation(document, { op: "add", path: this.path, value: keys[0]
});
*/
longitude = 0;
*/
const _equals = require('deep-equal');
var
equalsOptions = { strict: true };
var
helpers_1 = require('./helpers');
exports.JsonPatchError = helpers_1.PatchError;
exports.deepClone = helpers_1._deepClone;
var
equalsOptions = { strict: true };
It modifies the 'document' and 'operation' objects - it gets the values by reference.

If you would like to avoid touching your values, clone them:

```
function applyOperation(document, operation, validateOperation, mutateDocument, banPrototypeModifications, index) {
  if (validateOperation === void 0) { validateOperation = false; }
  if (mutateDocument === void 0) { mutateDocument = true; }
  if (banPrototypeModifications === void 0) { banPrototypeModifications = true; }
  if (index === void 0) { index = 0; }
  if (validateOperation) {
    if (typeof validateOperation == 'function') {
      validateOperation(operation, 0, document, operation.path);
    } else {
      validator(operation, 0);
    }
  }
  /* ROOT OPERATIONS */
  if (operation.path === "") {
    var returnValue = { newDocument: document };
    if (operation.op === 'add') {
      returnValue.newDocument = operation.value;
      return returnValue;
    } else if (operation.op === 'replace') {
      returnValue.newDocument = operation.value;
      returnValue.removed = document; //document we removed
      return returnValue;
    } else if (operation.op === 'move' || operation.op === 'copy') {
      returnValue.newDocument = getValueByPointer(document, operation.from); // get the value by json-pointer in 'from' field
      if (operation.op === 'move') {
        returnValue.removed = document;
      }
      return returnValue;
    } else if (operation.op === 'test') {
      returnValue.test = areEquals(document, operation.value);
      if (returnValue.test === false) {
        throw new exports.JsonPatchError("Test operation failed", 'TEST_OPERATION_FAILED', index, operation, document);
      }
      returnValue.newDocument = document;
      return returnValue;
    } else if (operation.op === 'remove') {
      returnValue.removed = document;
      returnValue.newDocument = null;
      return returnValue;
    } else if (operation.op === '_get') {
      operation.value = document;
      return returnValue;
    } else {
      if (validateOperation) {
        throw new exports.JsonPatchError('Operation `op` property is not one of operations defined in RFC-6902', 'OPERATION_OP_INVALID', index, operation, document);
      } else {
        return returnValue;
      }
    }
  } /* END ROOT OPERATIONS */
  else {
    if (!mutateDocument) {
      document = helpers_1._deepClone(document);
    }
    var path = operation.path || "";
    var keys = path.split('/');
    var obj = document;
    var t = 1; //skip empty element - http://jsperf.com/to-shift-or-not-to-shift
    var len = keys.length;
    var existingPathFragment = undefined;
    var key = void 0;
    var validateFunction = void 0;
    if (typeof validateOperation == 'function') {
      validateFunction = validateOperation;
    } else {
      validateFunction = validator;
    }
    while (true) {
      key = keys[t];
      if (banPrototypeModifications && key == '__proto__') {
        throw new TypeError('JSON-Patch: modifying `__proto__` prop is banned for security reasons, if this was on purpose, please set `banPrototypeModifications` flag false and pass it to this function. More info in fast-json-patch README');
      }
      if (validateOperation) {
        if (existingPathFragment !== undefined) {
          var varPath = operation.path || "";
          var keys = path.split('/');
          var obj = document;
          var t = 1; //skip empty element - http://jsperf.com/to-shift-or-not-to-shift
          var len = keys.length;
          var existingPathFragment = undefined;
          var key = void 0;
          var validateFunction = void 0;
          if (typeof validateOperation == 'function') {
            validateFunction = validateOperation;
          } else {
            validateFunction = validator;
          }
          while (true) {
            key = keys[t];
            if (banPrototypeModifications && key == '__proto__') {
              throw new TypeError('JSON-Patch: modifying `__proto__` prop is banned for security reasons, if this was on purpose, please set `banPrototypeModifications` flag false and pass it to this function. More info in fast-json-patch README');
            }
            if (validateOperation) {
              if (existingPathFragment === undefined) {
                var obj[key] = undefined;
              } else if (t == len - 1) {
                existingPathFragment = keys.slice(0, t).join('/');
              } else if (t === len) {
                existingPathFragment = keys.slice(0, t).join('/');
              } else if (validateFunction == undefi
key when it’s an integer for ‘arr.prop’ to work\n else if (helpers\.l\.isInteger(key)) \n key = ~~key;\n |\n |\n |\n if (t >= len) \n |\n |\n operation\.op === ‘\"add\"’ & & key > obj\.length) \n |\n |\n throw new exports\.JsonPatchError(‘The specified index MUST NOT be greater than the number of elements in the array’), \n ‘OPERATION_VALUE_OUT_OF_BOUNDS’, index, operation, document);\n |\n |\n var
 returnValue = arrOps[operation\.op].call(operation, obj, key, document); // Apply patch\n |\n |\n if (returnValue\.test === false) \n |\n |\n throw new exports\.JsonPatchError(‘Test operation failed’), \n ‘TEST_OPERATION_FAILED’, index, operation, document);\n |\n |\n return
 returnValue;\n |\n |\n else if (helpers\.isInteger(key)) \n |\n |\n key = ~~key;\n |\n |\n if (t >= len) \n |\n |\n var
 returnValue = objOps[operation\.op].call(operation, obj, key, document); // Apply patch\n |\n |\n if (returnValue\.test === false) \n |\n |\n throw new exports\.JsonPatchError(‘Test operation failed’), \n ‘TEST_OPERATION_FAILED’, index, operation, document);\n |\n |\n return
 returnValue;\n |\n |\n obj = obj[\nkey];\n |\n |\n |\n objOps[operation\.op].call(operation, obj, key, document); // Apply patch\n |\n |\n |\n |\n |\n returnValue = arrOps[operation\.op].call(operation, obj, key, document); // Apply patch\n |\n |\n |\n |\n |\n return
 returnValue;\n |\n |\n if (key & & key\.indexOf(‘~’)) !== -1 \n |\n |\n key = helpers\.l\.unescapePathComponent(key);\n |\n |\n |\n if (t >= len) \n |\n |\n var
 returnValue = objOps[operation\.op].call(operation, obj, key, document); // Apply patch\n |\n |\n |\n |\n |\n return
 returnValue;\n |\n |\n obj = obj[\nkey];\n |\n |\n |\n objOps[operation\.op].call(operation, obj, key, document); // Apply patch\n |\n |\n |\n |\n |\n return
 returnValue;
'OPERATION_PATH_INVALID', index, operation, document) || throw new exports.JsonPatchError('Operation `path` property must start with \'/\'', 'OPERATION_PATH_INVALID', index, operation, document) || throw new exports.JsonPatchError('Operation `from` property is not present (applicable in `move` and `copy` operations)', 'OPERATION_FROM_REQUIRED', index, operation, document) || throw new exports.JsonPatchError('Operation `from` property is not present (applicable in `move`, `replace` and `test` operations)', 'OPERATION_FROM_REQUIRED', index, operation, document) || throw new exports.JsonPatchError('Cannot perform an `add` operation at the desired path', 'OPERATION_PATH_CANNOT_ADD', index, operation, document) || throw new exports.JsonPatchError('Cannot perform the operation from a path that does not exist', 'OPERATION_FROM_UNRESOLVABLE', index, operation, document) || throw new exports.JsonPatchError('Cannot perform the operation at a path that does not exist', 'OPERATION_PATH_UNRESOLVABLE', index, operation, document) || throw new exports.JsonPatchError('Patch sequence must be an array', 'SEQUENCE_NOT_AN_ARRAY');}

if (document) {
  applyPatch(helpers_1._deepClone(document), helpers_1._deepClone(sequence), externalValidator || true);
}
else {
  externalValidator = externalValidator || validator;
  forOf(sequence, i => externalValidator(sequence[i], i, document, undefined), externalValidator || validator || true, function (sequence[i], i, document, undefined) {
    return;}
  )
  return;
}

if (e instanceof exports.JsonPatchError) {
  return e;
} else {
  throw e;
}

if (sequence[i] instanceof exports.JsonPatchError) {
  throw new exports.JsonPatchError('Patch sequence must be an array', 'SEQUENCE_NOT_AN_ARRAY');
}

if (document) {
  // clone document and sequence so that we can safely try applying operations
  applyPatch(helpers_1._deepClone(document), helpers_1._deepClone(sequence), externalValidator || true);
  forOf(sequence, i => externalValidator(sequence[i], i, document, undefined), externalValidator || validator || true, function (sequence[i], i, document, undefined) {
    throw e;
  };
  forOf(sequence, i => externalValidator(sequence[i], i, document, undefined), externalValidator || validator || true, function (sequence[i], i, document, undefined) {
    catch (e) {
      if (e instanceof exports.JsonPatchError) {
        throw new exports.JsonPatchError('Cannot perform an `add` operation at the desired path', 'OPERATION_PATH_CANNOT_ADD', index, operation, document) || throw new exports.JsonPatchError('Cannot perform the operation from a path that does not exist', 'OPERATION_FROM_UNRESOLVABLE', index, operation, document) || throw new exports.JsonPatchError('Cannot perform the operation at a path that does not exist', 'OPERATION_PATH_UNRESOLVABLE', index, operation, document) || throw new exports.JsonPatchError('Patch sequence must be an array', 'SEQUENCE_NOT_AN_ARRAY');
      }
    }
  });
  return;
}
type === "basic" ) {
        let username = security.getIn(["value", "username"])
        let password = security.getIn(["value", "password"])

        let client = Object.assign({}, username, password)

        let request = {
          url: url
        }

        let options = {
          method: method
        }

        request.headers = header

        if (password) {
          if (user) {
            request.headers = {
              Authorization: `Basic ${btoa(user + "\:" + password)}`
            }
          } else {
            delete request.headers.Authorization
          }
        }

        return request
      }
    })

    return state.set("authorized", map)
  },

  [AUTHORIZE_OAUTH2]: (state, { payload } ) =>{
    let { auth, token } = payload
    let parsedAuth

    auth.token = Object.assign({}, token)
    parsedAuth = fromJS(auth)

    return state.setIn( [ "authorized", parsedAuth.get("name") ], parsedAuth )
  },

  [LOGOUT]: (state, { payload } ) =>{
    let result = state.get("authorized")

    console.log(result)

    return state.set("authorized", result)
  },

  [CONFIGURE_AUTH]: (state, { payload } ) =>{
    return state.set("configs", payload)
  }

  return state
}

export const downloadUrlPlugin = (toolbox) => {
  let { fn } = toolbox

  return {
    fn: {
      download: (url) =>{
        let { fetch } = fn
        const config = getConfigs()
        url = url || specSelectors.url()
        specActions.updateLoadingStatus("loading")
        errActions.clear({source: "fetch"})
        fetch({
          url,
          loadSpec: true,
          requestInterceptor: (a) => a,
          responseInterceptor: (a) => a,
        })
      }
    }
  }

export const getDefinitionsByNames = ( state, securities ) => {
  if (securities) {
    let result = securities.valueSeq().map((sec) => {
      let definition = securityDefinitions.get(sec.get("name"))
      let allowedScopes

      if (definition.get("type") === "oauth2") {
        allowedScopes = definition.get("scopes")
        allowedScopes.keySeq().forEach((key) => {
          if ( !securities.contains(key) ) {
            allowedScopes = allowedScopes.delete(key)
          }
        })
        definition = definition.set("allowedScopes", allowedScopes)
      }

      result = result.push(definition)
    })
  }

  return result
}

export const authorized = createSelector( state, auth => auth.get("authorized")

parent = element; (parent = parent.parentElement);) {
    style = getComputedStyle(parent)
    if (excludeStaticParent && style.position === "static") {
      continue
    }
    if (overflowRegex.test(style.overflow + style.overflowY + style.overflowX))
      return parent
  }

  return LAST_RESORT
}

export default {
  fn: {
    getScrollParent,
  },
  statePlugins: {
    layout: {"operations\"}, tag, operationId\n } else if (tag) {\n    return \"operations-tag\", tag\n } return \n }

 reduces: {
  \[SCROLL_TO\](state, action) | return state.set(\"scrollToKey\", 
Im.fromJS(action.payload))}, \n  \[CLEAR_SCROLL_TO\](state) | return state.delete(\"scrollToKey\")
}

export const setHash = (value) => {
  if(value) {
    return history.pushState(null, null, `#${value}`)
  } else {
    return window.location.hash = ""
  }
}

export default function() {
  return {
    fn: {
      opsFilter
    }
  }
}

export default function(taggedOps, phrase) {
  return taggedOps.filter((tagObj, tag) => tag.indexOf(phrase) !== -1)
}

let engaged = false

export default function() {

  return {
    statePlugins: {
      spec: {
        wrapActions: {
          updateSpec: (ori) => (...args) => {
            engaged = true
            return ori(...args)
          },
          updateJsonSpec: (ori, system) => (...args) => {
            const cb = system.getConfigs().onComplete
            if(engaged && typeof cb === "function") {
              // call `onComplete` on next tick, which allows React to
              // reconcile the DOM before we notify the user
              setTimeout(cb, 0)
            }
            engaged = false
            return ori(...args)
          }
        }
      }
    }
  }
}

module.exports = "data:image/svg+xml;base64,PHN2ZyB3aWR0aD0iMjAwcHgiICBoZWlnaHQ9IjIwMHB4IiAgeG1sbnM9Imh0dHA6Ly93d3cudzMub3JnLzIwMDAvc3ZnIiB2aWV3Qm94PSIwIDAgMTAwIDEwMCIgcHJlc2VydmVBc3BlY3RvYXRpbz0ieE1pZFlNaWQiIGNsYXNzPSJsZHMtcm9sbGluZyIgc3R5bGU9ImJhY2tncm91bmQtaW1hZ2U6IG5vbmU7IGJhY2tncm91bmQtYXR0cmljZSIgc3R5bGU9Imh0dHA6Ly93d3cudzMub3JnLzIwMDAvc3ZnIiB3aWR0aDB8MS8wL2RpdGVzL2Vlcy9uZXQv
"
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"zfr":\u037E,
  "ZHcy":\u0416,
  "zhcy":\u0436,
  "zigrarr":\u21DD,


"Zopf":\u2124,
  "zopf":\u037E,
  "Zscr":\u037E,
  "Zscr":\u037E,
  "zwj":\u200D,
  "zwwj":\u200C
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/remarkable/lib/common/entities.js
// module id = 421/wi
// module chunks = 0","use strict';

var normalizeLink = require('./normalize_link');
var unescapeMd    = require('./normalize_link');

/**
 * Parse link destination
 *
 * @param {Object} state
 * @param {Number} pos
 * @api private
 */

module.exports = function parseLinkDestination(state, pos) {
  var code, level, link,
      start = pos,
      max = state.posMax;

  if (state.src.charCodeAt(pos) === 0x3C /* < */) {
    pos++;
    while (pos < max) {
      code = state.src.charCodeAt(pos);
      if (code === 0x0A /* \n */) { return false; }
      if (code === 0x3E /* > */) {
        link = normalizeLink(unescapeMd(state.src.slice(start + 1, pos)));
        if (!state.parser.validateLink(link)) { return false; }
        state.pos = pos + 1;
        state.linkContent = link;
        return true;
      }
      if (code === 0x5C /* \ */ && pos + 1 < max) {
        pos += 2;
        continue;
      }

      pos++;
    }

    // no closing '>
    return false;
  }

  // this should be ... } else { ... branch

  level = 0;

  while (pos < max) {
    code = state.src.charCodeAt(pos);

    if (code === 0x20) { break; }
    if (code > 0x08 && code < 0x0e) { break; }
    if (code === 0x5C /* \ */ && pos + 1 < max) {
      pos += 2;
      continue;
    }

    if (code === 0x28 /* ( */) {
      level++;
      if (level > 1) { break; }
    }

    if (code === 0x29 /* ) */) {
      level--;
      if (level < 0) { break; }
    }

    pos++;
  }

  if (start === pos) { return false; }

  link = unescapeMd(state.src.slice(start, pos));
  if (!state.parser.validateLink(link)) { return false; }

  state.linkContent = link;
  state.pos = pos + 1;
  return true;
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/remarkable/lib/helpers/normalize_link.js
// module id = 423/wi
// module chunks = 0","use strict';

module.exports = function normalizeReference(str) {
  // use .toUpperCase() instead of .toLowerCase()
  // here to avoid a conflict with Object.prototype members (most notably, __proto__) in
  // here to avoid a conflict with Object.prototype members (most notably, __proto__)
  return str.trim().replace(/\s+/g, ' ').toUpperCase();
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/remarkable/lib/helpers/normalize_reference.js
// module id = 425/wi
// module chunks = 0"
```javascript
import { createSelector } from 'reselect
import { Map } from 'immutable
import { isOAS3 as isOAS3Helper, isSwagger2 as isSwagger2Helper } from

// Helpers

const state = state => state

function onlyOAS3(selector) {
  return () => (system, ...args) => {
    const spec = system.getSystem().specSelectors.specJson()
    if(isOAS3Helper(spec)) {
      return selector(...args)
    } else {
      return null
    }
}

export const servers = onlyOAS3(createSelector(specJsonWithResolvedSubtrees, spec => spec.getIn(['servers'])))

export const isOAS3 = (ori, system) => () => {
  const spec = system.getSystem().specSelectors.specJson()
  return isOAS3Helper(Map.isMap(spec) ? spec : Map())
}

export const isSwagger2 = (ori, system) => () => {
  const spec = system.getSystem().specSelectors.specJson()
  return isSwagger2Helper(Map.isMap(spec) ? spec : Map())
}

// New selectors

export const servers = onlyOAS3(createSelector(spec, spec => spec.getIn(['servers'])))
```
contentType == "application/octet-stream" || contentType.indexOf("image/") === 0 || contentType.indexOf("audio/") === 0 || contentType.indexOf("video/") === 0 ) {
  const Input = getComponent("Input")

  if(!isExecute) {
    return <i>
      Example values are not available for
      \<code>application/octet-stream</code> media types.
    </i>
  }

  return <Input type={"file"} onChange={handleFile} />
}

if (isObjectContent && contentType === "application/x-www-form-urlencoded") {
  const JsonSchemaForm = getComponent("JsonSchemaForm")
  const ParameterExt = getComponent("ParameterExt")
  const bodyProperties = schemaForMediaType.get("properties", OrderedMap())
  const required = schemaForMediaType.get("required", List()).includes(key)
  const type = prop.get("type")
  const format = prop.get("format")
  const description = prop.get("description")
  const currentValue = requestBodyValue.get(key)

  let initialValue = prop.get("default") || prop.get("example") || ""

  if (initialValue === "" && type === "object") {
    initialValue = getSampleSchema(prop, false, {
      includeWriteOnly: true
    })
  }

  if (typeof initialValue !== "string" && type === "object") {
    initialValue = stringify(initialValue)
  }

  const isFile = type === "string" && (format === "binary" || format === "base64")

  return <tr key={key} className="parameters" data-property-name={key}>
    <td className="col parameters-col_name">
      <div className={required ? "parameter__name required" : "parameter__name"}>
        { key }
        { !required ? null : <span style={{color: "red"}}>&nbsp;*</span> }
      </div>
      <div className="parameter__type">
        { type }
        { format && <span className="prop-format">(${format})</span>}
        {!showCommonExtensions || !commonExt.size ? null : commonExt.map((v, key) => <ParameterExt key={`${key}-${v}`} xKey={key} xVal={v} />)}
      </div>
      <div className="parameter__deprecated">
        { prop.get("deprecated") ? "deprecated": null }
      </div>
    </td>
    <td className="col parameters-col_description">
      {description}
      {isExecute ? <div><JsonSchemaForm
          fn={fn}
          dispatchInitialValue={!isFile}
          schema={prop}
          description={key}
          getComponent={getComponent}
          value={currentValue === undefined ? initialValue : currentValue}
          onChange={(value) => {
            onChange(value, [key])
          }}
        /></div> : null }
    </td>
  </tr>
}

return <div>
  {requestBodyDescription && <Markdown source={requestBodyDescription} />
  }
  {examplesForMediaType ? (<ExamplesSelectValueRetainer
      examples={examplesForMediaType}
      currentKey={activeExamplesKey}
      currentUserInputValue={requestBodyValue}
      onSelect={handleExamplesSelect}
      updateValue={onChange}
      defaultToFirstExample={true}
      getComponent={getComponent}
    />) : null }
  {isExecute ? (<RequestBodyEditor
      value={requestBodyValue}
      defaultValue={getDefaultRequestBodyValue(requestBody, contentType, activeExamplesKey)}
      onChange={onChange}
      getComponent={getComponent}
    />) : null }
  {RequestBodyEditor
    value={requestBodyValue}
    defaultValue={getDefaultRequestBodyValue(requestBody, contentType, activeExamplesKey)}
    onChange={onChange}
    getComponent={getComponent}
  }
  {ModelExample
    getComponent={ getComponent }
    getConfigs={ getConfigs }
    specSelectors={ specSelectors }
    expandDepth={1}
    isExecute={isExecute}
    schema={ mediaTypeValue.get("schema") }
    specPath={ specPath.push("content", contentType) }
    example={
      stringify(requestBodyValue)
    }
    value={stringify(requestBodyValue)}
    defaultRequestBodyValue
  }
</div>

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contentType,
activeExamplesKey,
)>

examplesForMediaType ? (
  <Example
example={examplesForMediaType.get(activeExamplesKey)}
getComponent={getComponent}
/>)

}: null

</div>

RequestBody.propTypes = {
  requestBody: ImPropTypes.orderedMap.isRequired,
requestBodyValue: ImPropTypes.orderedMap.isRequired,
getComponent: PropTypes.func.isRequired,
getConfigs: PropTypes.func.isRequired,
fn: PropTypes.object.isRequired,
specSelectors:
PropTypes.object.isRequired,
getComponent: PropTypes.string.isRequired,
isExecute: PropTypes.bool.isRequired,
onChange: PropTypes.func.isRequired,
specPath: PropTypes.array.isRequired,
activeExamplesKey:
PropTypes.string,
updateActiveExamplesKey: PropTypes.func,
unexport default RequestBody


Webpack Footer //ui/ ./src/core/plugins/oas3/components/request-body.jsx","import React, { Component }
from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

class OperationLink extends Component {
  render() {
    const { link, name, getComponent } = this.props

    const Markdown = getComponent("Markdown")

    let targetOp = link.get("operationId") || link.get("operationRef")
    let parameters = link.get("parameters") && link.get("parameters").toJS()
    let description = link.get("description")

    return <div style={{ marginBottom: "1.5em" }}>
      <div style={{ marginBottom: ".5em" }}>
        <b><code>{name}</code></b>
        { description ? <Markdown source={description}></Markdown> : null }
      </div>
      <pre>
        Operation `{targetOp}`

Parameters {padString(0, JSON.stringify(parameters, null, 2)) || "{}"}
      </pre>
    </div>

}

function padString(n, string) {
  if(typeof string !== "string") { return "" }
  return string
    .split("\n")
    .map((line, i) => i > 0 ? Array(n + 1).join(" ") + line : line)
    .join("\n")
}

OperationLink.propTypes = {
  getComponent: PropTypes.func.isRequired,
  link: ImPropTypes.orderedMap.isRequired,
  name: PropTypes.String
}

export default OperationLink


Webpack Footer //ui/ ./src/core/plugins/oas3/components/operation-link.jsx","import React from "react"
import { OrderedMap } from "immutable"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

export default class Servers extends React.Component {

  static propTypes = {
    servers: ImPropTypes.list.isRequired,
    currentServer: PropTypes.string.isRequired,
    setSelectedServer: PropTypes.func.isRequired,
    setServerVariableValue: PropTypes.func.isRequired,
    getServerVariable: PropTypes.func.isRequired,
    getEffectiveServerValue: PropTypes.func.isRequired
  }

  componentDidMount() {
    let { servers, currentServer } = this.props

    if(currentServer) {
      return
    }

    //fire 'change' event to set default 'value' of select
    this.setServer(servers.first().get("url"))
  }

  componentWillReceiveProps(nextProps) {
    let {
      servers,
      setServerVariableValue,
      getServerVariable
    } = this.props

    if(this.props.currentServer !== nextProps.currentServer) {
      // Server has changed, we may need to set default values
      let currentServerDefinition = servers
        .find(v => v.get("url") === nextProps.currentServer)

      if(!currentServerDefinition) {
        return
      }

      let currentServerVariableDefs = currentServerDefinition.get("variables")

      currentServerVariableDefs.map((val, key) => {
        let currentValue = getServerVariable(nextProps.currentServer, key)
        // only set the default value if the user hasn't set one yet
        if(!currentValue) {
          v.get("url") === nextProps.currentServer ? this.setServerVariableValue({
            server: currentServer,
            key: variableName,
            val: newVariableValue
          })
        }
      })
    }
  }

  onServerChange = (e) => {
    this.setServer(e.target.value)
    // set default variable values
  }

  onServerVariableValueChange = (e) => {
    let { currentServer, value } = e.target
    if((typeof setServerVariableValue === "function")
      // only set the default value if the user hasn't set one yet
      this.setServerVariableValue({
        server: currentServer,
        key: variableName,
        val: newVariableValue
      })
    }
  }

  setServer = (value) => {
    this.setServer(value)
  }

  render() {
    let { servers, currentServer, getServerVariable, render } = this.props
    let currentServerVariableDefs = currentServerDefinition.get("variables")

    return (servers.find(v => v.get("url") === currentServer) || OrderedMap()).

    let currentServerDefinition = servers.find(v => v.get("url") === currentServer)

    return (currentServerVariableDefs || OrderedMap()).map((value, key) => {
      if(key === "url") {
        return (value) => {
          this.setServerVariableValue({
            server: currentServer,
            key: variableName,
            val: newVariableValue
          })
        }
      }
    })
  }

  getServerVariable = (key, value) => {
    return servers.find(v => v.get("url") === currentServer)
  }

  getEffectiveServerValue = PropTypes.func.isRequired
}

export default Servers


Webpack Footer //ui/ ./src/core/plugins/oas3/components/servers.jsx"
shouldShowVariableUI = currentServerVariableDefs.size !== 0

    return (
      <div className="servers">
        {<label htmlFor="servers">
          <select onChange={ this.onServerChange }>
            {servers.valueSeq().map(
              ( server ) =>
              <option
                value={ server.get("url") }
                key={ server.get("url") }>
                { server.get("url") }
                { server.get("description") && ` - 
                  ${server.get("description")}` }
              </option>
            ).toArray()}
          </select>
        </label>
        {shouldShowVariableUI ?
          <div>

            <div className={"computed-url"}>
              Computed URL:
              <code>
                {getEffectiveServerValue(currentServer)}
              </code>
            </div>

            <h4>Server variables</h4>
            <table>
              <tbody>
                {currentServerVariableDefs.map((val, name) => {
                    return <tr key={name}>
                      <td>{name}</td>
                        <td>
                          { val.get("enum") ?
                            <select data-
                                variable={name} onChange={this.onServerVariableValueChange}>
                                {val.get("enum").map(enumValue => {
                                    return <option
                                      selected={enumValue === getServerVariable(currentServer, name)}
                                        key={enumValue}
                                        value={enumValue}>
                                        {enumValue}
                                    </option>
                                })}
                            </select> :
                            <input
                              type={"text"}
                              value={getServerVariable(currentServer, name) || ""}
                              onChange={this.onServerVariableValueChange}
                               data-variable={name}
                             ></input>
                        }
                      </td>
                    </tr>
                  })
                }
              </tbody>
            </table>
          </div>: null}
        </div>
      )
    )
  }
}


// WEBPACK FOOTER
//
// ./src/core/plugins/oas3/components/servers.jsx

import React from "react"
import PropTypes from "prop-types"

export default class ServersContainer extends React.Component {

  static propTypes = {
    specSelectors: PropTypes.object.isRequired,
    oas3Selectors: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
  }

  render () {
    const {specSelectors, oas3Selectors, oas3Actions, getComponent} = this.props

    const servers = specSelectors.servers()

    const Servers = getComponent("Servers")

    return servers && servers.size ? (
      <div>
        <span className="servers-title">Servers</span>
        <Servers
          servers={servers}
          currentServer={oas3Selectors.selectedServer()}
          setSelectedServer={oas3Actions.setSelectedServer}
          setServerVariableValue={oas3Actions.setServerVariableValue}
          getServerVariable={oas3Selectors.serverVariableValue}
          getEffectiveServerValue={oas3Selectors.serverEffectiveValue}
        />
      </div> ) : null
  }
}


// WEBPACK FOOTER //
// ./src/core/plugins/oas3/components/RequestBodyEditor.jsx

import React, { PureComponent } from "react"
import PropTypes from "prop-types"
import { stringify } from "core/utils"

const NOOP = Function.prototype

export default class RequestBodyEditor extends PureComponent {

  static propTypes = {
    onChange: PropTypes.func,
    getComponent: PropTypes.func.isRequired,
    value: PropTypes.string,
    defaultValue: PropTypes.string,
  };

  static defaultProps = {
    onChange: NOOP,
  };

  constructor(props, context) {
    super(props, context)

    this.state = {
      value: stringify(props.value) || props.defaultValue
    }

    // this is the glue that makes sure our initial value gets set as the
    // current request body value
    // TODO: achieve this in a selector instead
    props.onChange(props.value)
  }

  applyDefaultValue = (nextProps) => {
    const { onChange, defaultValue } = (nextProps ? nextProps : this.props)

    this.setState({
      value: defaultValue
    })

    return onChange(defaultValue)
  }

  onChange = (value) => {
    this.props.onChange(stringify(value))
  }

  onDomChange = e => {
    const inputValue = e.target.value

    this.setState({
      value: inputValue,
    }, ()
      => this.onChange(inputValue))
  }

  componentWillReceiveProps(nextProps) {
    if(
      this.props.value !== nextProps.value &&
      nextProps.value !== this.state.value
    ) {

      this.setState({
        value: stringify(nextProps.value)
      })
    }

    if(!nextProps.value && nextProps.defaultValue &&
      !this.state.value) {
      // if new value is falsy, we have a default, AND the falsy value didn't
      // come from us originally
      this.applyDefaultValue(nextProps)
    }
  }

  render() {
    let {
      getComponent
    } = this.props

    let {
      value
    } = this.state

    const TextArea = getComponent("TextArea")

    return
<div className="body-param">
  <TextArea
    className={"body-param__text"}
    value={value}
    onChange={this.onDomChange}
  />
</div>

const Input = getComponent("Input")
const Row = getComponent("Row")
const Col = getComponent("Col")
const AuthError = getComponent("authError")
const Markdown = getComponent("Markdown")
const JumpToPath = getComponent("JumpToPath", true)
const schema = (schema.get("scheme") || "{\"\"")

let value = this.getValue()
let errors = errSelectors.allErrors().filter( err => err.get("authId") === name)

if(scheme === "basic") {
  let username = value ? value.get("username") : null
  return <div>
    <h4>
      <code>{ name || schema.get("name") }</code>&nbsp;
        (http, Basic)
        <JumpToPath path={[ "securityDefinitions", name ]} />
      </h4>
    { username && <h6>Authorized</h6> }
    <Row>
      <Markdown source={ schema.get("description") } />
    </Row>
    <Row>
      <label>Username:</label>
        {
          username ? <code> { username } </code>
                   : <Col><Input type="text" required="required" name="username" onChange={ this.onChange }/></Col>
        }
    </Row>
    { errors.valueSeq().map( (error, key) => {
      return <AuthError error={ error }
                        key={ key }/>
    } )
    }
  </div>
}

if(scheme === "bearer") {
  return (<
    <div>
      <h4>
        <code>{ name || schema.get("name") }</code>&nbsp;
          (http, Bearer)
          <JumpToPath path={[ "securityDefinitions", name ]} />
      </h4>
      <Row>
        <label>Password:</label>
          {
            value ? <code> ****** </code>
                     : <Col><Input type="text" onChange={ this.onChange }/></Col>
        }
      </Row>
      { errors.valueSeq().map( (error, key) => {
        return <AuthError error={ error }
                          key={ key }/>
      } )
      }
    </div>
  )
}

return <div>
  <em><b>{name}</b> HTTP authentication: unsupported scheme `{\"scheme\"}`</em>
</div>
keeping up with this in props/state upstream of us
// instead of cheating™ with `forceUpdate`
this.forceUpdate() // return this.props.setServerVariableValue({
  ...obj,
  namespace: `$\{path\}:$\{method\}`
})

function setSelectedServer() {
  return this.props.setServerVariableValue({
    $\{path\}:$\{method\}
  })
}

function getSelectedServer() {
  return this.props.getSelectedServer({
    $\{path\}:$\{method\}
  })
}

function getEffectiveServerValue() {
  return this.props.getEffectiveServerValue({
    $\{path\}:$\{method\}
  })
}

const Servers = getComponent("Servers")

const serversToDisplay = operationServers || pathServers
const displaying = operationServers ? "operation" : "path"

return <div className="opblock-section operation-servers">
  <div className="opblock-section-header">
    <div className="tab-header">
      <h4 className="opblock-title">Servers</h4>
    </div>
  </div>
  <div className="opblock-description-wrapper">
    <h4 className="message">
      These {displaying}-level options override the global server options.
    </h4>
    <Servers
      servers={serversToDisplay}
      currentServer={this.getSelectedServer()}
      setSelectedServer={this.setSelectedServer}
      setServerVariableValue={this.setServerVariableValue}
      getServerVariable={this.getServerVariable}
      getEffectiveServerValue={this.getEffectiveServerValue}
      />
  </div>
</div>
export default OAS3ComponentWrapFactory(() => null)

import React, { Component } from 'react'
import PropTypes from 'prop-types'
import { OAS3ComponentWrapFactory } from './core/plugins/oas3/wrap-components/online-validator-badge.js',

class ModelComponent extends Component
{
  static propTypes = {
    schema: PropTypes.object.isRequired,
    name: PropTypes.string,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    expandDepth: PropTypes.number
  }

  render(){
    let { getConfigs, schema } = this.props
    let classes = ['model-box']
    let isDeprecated = schema.get('deprecated') === true
    let message = null

    if(isDeprecated) {
      classes.push('deprecated')
      message = <span className="model-deprecated-warning">Deprecated:</span>
    }

    return <div className={classes.join(' ')}>"message"<Model { ...this.props }
      getConfigs={ getConfigs }
      getComponent={ getComponent }
      depth={ 1 }
      expandDepth={ this.props.expandDepth || 0 }
      />
    </div>
  }
}

export default OAS3ComponentWrapFactory(ModelComponent)

// WEBPACK FOOTER //
// ./src/core/plugins/oas3/wrap-components/model.jsx",import React from "react"
import { OAS3ComponentWrapFactory } from "../helpers"

export default OAS3ComponentWrapFactory(({ Ori, ...props }) => {
  const {
    schema,
    getComponent,
    errors,
    onChange
  } = props

  const { type, format }
  = schema
  const Input = getComponent("Input")

  if(type === "string" && (format === "binary" || format
  === "base64v4")) {
    return <Input type="file"
                   className={ errors.length ? "invalid" : ""}
                   title={ errors.length ? errors : ""}
                   onChange={(e) => {
                     onChange(e.target.files[0])
                   }}
                   disabled={Ori.isDisabled}/>
  } else {
    return <Ori
      {...props} />
  }
})

// WEBPACK FOOTER //
// ./src/core/plugins/oas3/wrap-components/json-schema-string.jsx",import { OrderedMap } from 'immutable'

export const selectedServer = onlyOAS3((state, namespace) => {
    const path = namespace ? [namespace, "selectedServer"] : ["selectedServer"]
    return state.getIn(path) || ""
  }
)

export const requestBodyValue = onlyOAS3((state, path, method) => {
    return state.getIn(["requestData", path, method, "bodyValue"])
  }
)

export const activeExamplesMember = onlyOAS3((state, path, method, type, name) => {
    return state.getIn(["examples", path, method, type, name])
  }
)

export const requestContentType = onlyOAS3((state, path, method) => {
    return state.getIn(["requestData", path, method, "requestContentType"])
  }
)

export const responseContentType = onlyOAS3((state, path, method) => {
    return state.getIn(["requestData", path, method, "responseContentType"])
  }
)

export const serverVariableValue = onlyOAS3((state, locationData, key) => {
    let path

    // locationData may take one of two forms, for backwards compatibility
    // Object: {
      server, namespace?
    } or String:(server)
    if(typeof locationData !== string}) {
      const { server, namespace } = locationData
      if(namespace) {
        path = [namespace, "serverVariableValues", server, key]}
    } else {
      path = ["serverVariableValues", server, key]}
    }

    return state.getIn(path)
  }
)

// WEBPACK FOOTER //
serverValue)
  } else { var serverValue = locationData
  varValues = state.getIn(['serverVariableValues', serverValue])
  varValues = varValues || OrderedMap()
  let str = serverValue
  varValues.map((val, key) => {
    str = str.replace(new RegExp(`\${key}\`), val)
  })
  return str
})

export { UPDATE_SELECTED_SERVER, UPDATE_REQUEST_BODY_VALUE, UPDATE_ACTIVE_EXAMPLES_MEMBER, UPDATE_RESPONSE_CONTENT_TYPE, UPDATE_SERVER_VARIABLE_VALUE } from 'actions'

export default {
  [UPDATE_SELECTED_SERVER]: (state, { payload: { selectedServerUrl, namespace } }) =>{
    const path = namespace ? [ namespace, 'selectedServer' ] : [ 'selectedServer' ]
    return state.setIn( path, selectedServerUrl )
  },
  [UPDATE_REQUEST_BODY_VALUE]: (state, { payload: { value, pathMethod } }) =>{
    let [path, method] = pathMethod
    return state.setIn( [ 'requestData', path, method, 'bodyValue' ], value )
  },
  [UPDATE_ACTIVE_EXAMPLES_MEMBER]: (state, { payload: { name, pathMethod, contextType, contextName } }) =>{
    let [path, method] = pathMethod
    return state.setIn( [ 'examples', path, method, contextType, contextName, 'activeExample' ], name )
  },
  [UPDATE_RESPONSE_CONTENT_TYPE]: (state, { payload: { value, path, method } }) =>{
    return state.setIn( [ 'requestData', path, method, 'responseContentType' ], value )
  },
  [UPDATE_SERVER_VARIABLE_VALUE]: (state, { payload: { server, namespace, key, val } }) =>{
    const path = namespace ? [ namespace, 'serverVariableValues', server, key ] : [ 'serverVariableValues', server, key ]
    return state.setIn(path, val)
  },
}

const request = require('request')

request.keys().forEach( function(key){
  if(key === './index.js') {
    return
  }

  // if(key.slice(2).indexOf('/') > -1) {
  //   // skip files in subdirs
  //   return
  // }

  let mod = request(key)
  module.exports[key] = mod
})

require('es6-promise')
require('core-js/es6/object')
require('core-js/es6/function')
require('core-js/es6/reflect')
require('core-js/es6/math')
require('core-js/es6/number')
require('core-js/es6/string')
require('core-js/es6/symbol')
require('core-js/es6/iterators')
require('core-js/es6/web.dom.iterable')

module.exports = function () { /* empty */ }
25.4.3.1 Promise(executor)

$Promise = function Promise(executor) {

  anInstance(this, $Promise, PROMISE, 'h');

  aFunction(executor);

  Internal.call(this); try {
    executor(ctx($resolve, this, 1), ctx($reject, this, 1));
  } catch (err) {
    $reject.call(this, err);
  } }; // eslint-disable-next-line no-unused-vars

  Internal = function Promise(executor) {

    anInstance(this, $Promise, PROMISE, '_h');

    aFunction(executor);

    Internal.call(this);

    try {
      executor(ctx($resolve, this, 1), ctx($reject, this, 1));
    } catch (err) {
      $reject.call(this, err);
    }
  };

  // eslint-disable-next-line no-unused-vars
  Internal = function Promise(executor) {

    this._c = [];

    this._a = undefined;

    this._s = 0;

    this._d = false;

    this._v = undefined;

    this._n = false;

  };

  Internal.prototype = require('./_redefine-all')($Promise.prototype, {

    // 25.4.5.3 Promise.prototype.then(onFulfilled, onRejected)
    then: function then(onFulfilled, onRejected) {

      var reaction = newPromiseCapability(speciesConstructor(this, $Promise));

      reaction.ok = typeof onFulfilled == 'function' ? onFulfilled : true;

      reaction.fail = typeof onRejected == 'function' && onRejected;

      reaction.domain = isNode ? process.domain : undefined;

      this._c.push(reaction);

      if (this._a) this._a.push(reaction);

      if (this._s) notify(this, false);

      return reaction.promise;
    },

    // 25.4.4.5 Promise.reject(r)
    reject: function reject(r) {

      var capability = newPromiseCapability(this);

      var $$reject = capability.reject;

      $$reject(r);

      return capability.promise;
    }
  });

  $export($export.G + $export.W + $export.F * !USE_NATIVE, { Promise: $Promise });

  require('./_set-to-string-tag')($Promise, PROMISE);

  require('./_set-species')(PROMISE);

  Wrapper = require('./_core')[PROMISE];

  // statics
  $export($export.S + $export.F * !(USE_NATIVE && require('./_iter-detect')(function (iter) {
    $Promise.all(iter)['catch'](empty);
})), PROMISE, {

    // 25.4.4.1 Promise.all(iterable)
    all: function all(iterable) {

      var C = this;

      var capability = newPromiseCapability(C);

      var resolve = capability.resolve;

      var reject = capability.reject;

      var result = perform(function () {

        var values = [];

        var index = 0;

        var remaining = 1;

        forOf(iterable, false, function (promise) {

          var $index = index++;

          var alreadyCalled = false;

          values.push(undefined);

          remaining++;

        });

        --remaining || resolve(values);

      });

    },

    // 25.4.4.4 Promise.race(iterable)
    race: function race(iterable) {

      var C = this;

      var capability = newPromiseCapability(C);

      var reject = capability.reject;

      var result = perform(function () {

        var values = [];

        var index = 0;

        var remaining = 1;

        forOf(iterable, false, function (promise) {

          C.resolve(promise).then(capability.resolve, reject);

        });

      });

    }
  });

  // WEBPACK FOOTER
  // ./node_modules/core-js/modules/es6.promise.js
  // module id = 476
  // module chunks = 0

  module.exports = function (it, Constructor, name, forbiddenField) {

    if (!(it instanceof Constructor) ||

      forbiddenField !== undefined && forbiddenField in it)) {

      throw TypeError(name + ': incorrect invocation!');

    } return it;
  };

  module.exports = function (it, Constructor, name, forbiddenField) {

    if (!((it instanceof Constructor) ||

      forbiddenField !== undefined && forbiddenField in it))) {

      throw TypeError(name + ': incorrect invocation!');

    } return it;
  };

  WEBPACK_FOOTER
  
  WEBPACK_FOOTER
  
  WEBPACK_FOOTER
this; \n );\n }\n \n module.exports = function (exec, skipClosing) { // eslint-disable-next-line no-throw-literal
  var core = require('./_core');
  var global = require('./_global');
  var speciesConstructor = require('./_species-constructor');
  var promiseResolve = require('./_promise-resolve');
  var exportP + exportR = Promise, 'Finally': function (onFinally) {
    var C = speciesConstructor(this, core.Promise || global.Promise);
    var isFunction = typeof onFinally == 'function';
    return this.then(isFunction ? function (x) {
      return promiseResolve(C, onFinally()).then(function (done) {
        if (done) return Promise.resolve(onFinally());
      }, function (done) {
        return Promise.reject(onFinally());
      }));
  }
};

function promiseCapability = require('./_new-promise-capability');
function perform = require('./_perform');

$export($export.S, 'Promise', { 'try': function (callbackfn) { // eslint-disable-line no-unused-vars
  var promiseCapability = newPromiseCapability.f(this);
  var result = perform(callbackfn);
  (result.e ? promiseCapability.reject : promiseCapability.resolve)(result.v);
  return promiseCapability.promise;
} });

String.fromCharCode;
const { GIT_DIRTY, GIT_COMMIT, PACKAGE_VERSION, HOSTNAME, BUILD_TIME } = buildInfo

module.exports = function SwaggerUI(opts) {

  const defaults = {
    dom_id: null, // eslint-disable-line camelcase
    domNode: null,
    url: '',
    urls: [],
    layout: 'BaseLayout',
    docExpansion: 'list',
    maxDisplayedTags: null,
    filter: null,
    validatorUrl: 'https://online.swagger.io/validator',
    oauth2RedirectUrl: '${window.location.protocol}//${window.location.host}/oauth2-redirect.html',
    configs: {
      custom: {},
      displayOperationId: false,
      displayRequestDuration: false,
      deepLinking: false,
      requestInterceptor: (a => a),
      responseInterceptor: (a => a),
      showMutatedRequest: true,
      defaultModelRendering: 'example',
      defaultModelExpandDepth: 1,
      layout: 'BaseLayout',
      filter: ' sucht akzeptable Plugins ( TODO rename this, or refactor - we don't need presets _and_ plugins. Its just there for performance. ) Instead, we can compile the first plugin ( it can be a collection of plugins ), then batch the rest. }

  const store = new System(storeConfigs)
  store.register([constructorConfig.plugins, inlinePlugin])

  var system = store.getSystem()

  const downloadSpec = (fetchedConfig) => {
    var localConfig = system.specSelectors.getLocalConfig ? system.specSelectors.getLocalConfig() : {}

    var mergedConfig = deepExtend({}, localConfig, constructorConfig, fetchedConfig || {}, queryConfig)

    // deep extend mangles domNode, we need to set it manually
    if(domNode) { mergedConfig.domNode = domNode }

    store.setConfigs(mergedConfig)
    system.configsActions.loaded()

    if (fetchedConfig !== null) {
      if (!queryConfig.url && typeof mergedConfig.spec === 'object' && Object.keys(mergedConfig.spec).length) {
        system.specActions.updateUrl('')
        system.specActions.updateLoadingStatus('success')
      } else if (system.specActions.download) {
        system.specActions.download(mergedConfig.url)
      }
    }

    if(mergedConfig.domNode) {
      system.render(mergedConfig.domNode, 'App')
    } else if(mergedConfig.dom_id === null || mergedConfig.domNode === null) {
      // do nothing
      // this is useful for testing that does not need to do any rendering
    } else {
      console.error("Skipped rendering: no `dom_id` or `domNode` was specified")
    }

    return system
  }

  const configUrl = queryConfig.config || constructorConfig.configUrl

  if (!configUrl || !system.specActions || !system.specActions.getConfigByUrl || system.specActions.getConfigByUrl && !system.specActions.getConfigByUrl({
    url: configUrl,
    loadRemoteConfig: true,
    requestInterceptor: constructorConfig.requestInterceptor,
    responseInterceptor: constructorConfig.responseInterceptor,
    [ 'downloadSpec'],
  }) else if ((system.specActions.download && !mergedConfig.urls) || (system.specActions.updateUrl && !mergedConfig.urls) || (system.specActions.updateLoadingStatus && !mergedConfig.urls)) {
    console.error("Skipped rendering: no `dom_id` or `domNode` was specified")
  }

  return downloadSpec()
'symbol';
} : function (it) {
  return it instanceof $Symbol;
};

var $defineProperty = function defineProperty(it, key, D) {
  if (it === ObjectProto) $defineProperty(OPSymbols, key, D);
  anObject(it);
  key
  = toPrimitive(key, true);
  anObject(D);
  if (has(AllSymbols, key)) {
    if (!D.enumerable) {
      if (!has(it, HIDDEN))
        $dP(it, HIDDEN, createDesc(1, {}));
      it[HIDDEN][key] = true;
    } else {
      if (has(it, HIDDEN) && it[HIDDEN][key]) it[HIDDEN][key] = false;
    }
  }
  D = _create(D, { enumerable: createDesc(0, false) });
  } return
  setSymbolDesc(it, key, D);
};

var $defineProperties = function defineProperties(it, P) {
  anObject(it);
  var keys = enumKeys(P = toIObject(P));
  var i = 0;
  while (keys.length > i) $defineProperty(it, keys[i++], P[keys[i]]);
  return it;
};

var $getOwnPropertyDescriptor = function getOwnPropertyDescriptor(it, key) {
  var P = toIObject(it);
  key = toPrimitive(key, true);
  if (it === ObjectProto && has(AllSymbols, key) && hasOPSymbols, key)) return false;
  return P !== undefined ? _create(it, { describe: createDesc(0, false) })
  : !has(it, key) || !has(AllSymbols, key) || has(it, HIDDEN) && !has(HIDDEN, key) ? E : true;
};

var $getOwnPropertyNames = function getOwnPropertyNames(it) {
  var keys = gOPN(toIObject(it));
  var result = [];
  var i = 0;
  while (keys.length > i) {
    if (!has(AllSymbols, keys[i]) && (keys[i] != HIDDEN && keys[i] != META)) result.push(keys[i++]);
  } return result;
};

var $getOwnPropertySymbols = function getOwnPropertySymbols(it) {
  var IS_OP = it === ObjectProto;
  var keys = gOPN(IS_OP ? OPSymbols : toIObject(it));
  var result = [];
  var i = 0;
  while (keys.length > i) {
    if (has(AllSymbols, keys[i]) && (IS_OP ? has(ObjectProto, keys[i]) : true))
      result.push(keys[i++]);
  } return result;
};

$Symbol = function Symbol() {
  if (this instanceof $Symbol) throw TypeError('Symbol is not a constructor!');
  var tag = uid(arguments.length > 0 ? arguments[0] : undefined);
  var $set = function (value) {
    if (this === ObjectProto) $set.call(OPSymbols, value);
    if (has(this, HIDDEN) && has(this[HIDDEN], tag))
      this[HIDDEN][tag] = false;
    setSymbolDesc(this, tag, createDesc(1, value));
  };
  if (DESCRIPTORS && setter)
    setSymbolDesc(ObjectProto, tag, { configurable: true, set: $set });

  redefine($Symbol[PROTOTYPE], 'toString', function toString() {
    return this._k;
  });
  $GPDP.f = $getOwnPropertyDescriptor;
  $DP.f = $defineProperty;
  require('../object-gprobj').f = gOPNExt.f =
  $getOwnPropertyNames;
  require('../object-gprobj').f = $SymbolIsEnumerable;
  require('../object-gprobj').f =
  $getOwnPropertySymbols;
  if (DESCRIPTORS && !require('../object-gprobj').f)
    redefine(ObjectProto, 'propertyIsEnumerable', $SymbolIsEnumerable, true);
  var $ksExt.f = function (name) {
    var wrap = wks(isolated ? wks : wks);
    var excerpt = (excerpt & excerpt.G + excerpt.W & excerpt.F) * !USE_NATIVE,
        $Symbol = (Symbol ? Symbol : $Symbol);
  var hasNames = gOPN(toObject(it));
  var result = {};
  var i = 0;
  while (names.length > i) {
    if (!has(AllSymbols, key, names[i++]) && (names[i] != HIDDEN && names[i] != META)) result.push(names[i++]);
  } return result;
};

$export($export.G + $export.W + $export.F * !USE_NATIVE, { Symbol: $Symbol });

for (var es6Symbols = (
  'hasInstance,isConcatSpreadable,iterator,match,replace,search,species,split,toPrimitive,toStringTag,unscopables').split(','),
  j = 0; j < es6Symbols.length; j++)
  wks(es6Symbols[j++])
  ENUMERABLE, true));
  } return
  wksExt.f = function (name) {
    var wrap = wks(name)
    var excerpt = (excerpt & excerpt.G + excerpt.W & excerpt.F) * !USE_NATIVE,
        $Symbol = (Symbol ? Symbol : $Symbol);
  var hasNames = gOPN(toObject(it));
  var result = {};
  var i = 0;
  while (names.length > i) {
    if (!has(AllSymbols, key, names[i++]) && (names[i] != HIDDEN && names[i] != META)) result.push(names[i++]);
  } return result;
};

$export($export.S + $export.F * !USE_NATIVE, Symbol, { hasInstance, isConcatSpreadable, iterator, replace, search, species, split, toStringTag, unscopables });
= new Arr(_byteLength(b64, validLen, placeHoldersLen))

var curByte = 0

// if there are placeholders, only
get up to the last complete 4 chars
var len = placeHoldersLen > 0
? validLen - 4
: validLen

for (var i = 0; i < len; i++) {

var tmp

if (placeHoldersLen === 2) {

// pad the end with zeros, but make sure to not forget the extra bytes
if (extraBytes === 1)

m = ((value * c) - 1) * Math.pow(2, mLen - 1)

else if (e + eBias >= 1)

\n\n\n
// WEBPACK FOOTER
// ./node_modules/ieee754/index.js\n// module id = 532
// module chunks = 0

```
import React from "react"
import { createStore, applyMiddleware, bindActionCreators, compose } from "redux"
import Im, { fromJS, Map } from "immutable"
import deepExtend from "deep-extend"
import { combineReducers } from "redux-immutable"
import serializeError from "serialize-error"
import assignDeep from "@kyleshockey/object-assign-deep"
import { NEW_THROWN_ERR } from "corePlugins/err/actions"
import win from "core/window"

import { systemThunkMiddleware, isFn, objMap, objReduce, isObject, isArray, isFunc } from
```

\n\n\n
```
\"core/utils\"\n\nconst idFn = a => a\n\n// Apply middleware that gets sandwitched between `dispatch` and the
reducer function(s)\nfunction createStoreWithMiddleware(rootReducer, initialState, getSystem) {\n\n let
middlwares = [\n // createLogger( {\n // stateTransformer: state => state && state.toJS()\n // } ),\n
systemThunkMiddleware( getSystem )\n ]\n\n const composeEnhancers =
win.__REDUX_DEVTOOLS_EXTENSION_COMPOSE__ || compose\n\n return createStore(rootReducer,
initialState, composeEnhancers(\n applyMiddleware( ...middlwares )\n ))\n}\n\nexport default class Store {\n\n
constructor(opts={}) {\n deepExtend(this, {\n
state: {},\n
plugins: [],\n
system: {\n
configs: {},\n
fn: {},\n
components: {},\n
rootInjects: {},\n
statePlugins: {}\n
},\n
boundSystem: {},\n
toolbox: {}\n }, opts)\n\n this.getSystem = this._getSystem.bind(this)\n\n // Bare system (nothing in it, besides
the state)\n this.store = configureStore(idFn, fromJS(this.state), this.getSystem )\n\n // will be the system + Im,
we can add more tools when we need to\n this.buildSystem(false)\n\n // Bootstrap plugins\n
this.register(this.plugins)\n }\n\n getStore() {\n return this.store\n }\n\n register(plugins, rebuild=true) {\n var
pluginSystem = combinePlugins(plugins, this.getSystem())\n systemExtend(this.system, pluginSystem)\n
if(rebuild) {\n
this.buildSystem()\n }\n\n const needAnotherRebuild = callAfterLoad.call(this.system,
plugins, this.getSystem())\n\n if(needAnotherRebuild) {\n
this.buildSystem()\n }\n }\n\n
buildSystem(buildReducer=true) {\n let dispatch = this.getStore().dispatch\n let getState =
this.getStore().getState\n\n this.boundSystem = Object.assign({},\n
this.getRootInjects(),\n
this.getWrappedAndBoundActions(dispatch),\n
this.getWrappedAndBoundSelectors(getState,
this.getSystem),\n
this.getStateThunks(getState),\n
this.getFn(),\n
this.getConfigs()\n )\n\n
if(buildReducer)\n
this.rebuildReducer()\n }\n\n _getSystem() {\n return this.boundSystem\n }\n\n
getRootInjects() {\n return Object.assign({\n
getSystem: this.getSystem,\n
getStore:
this.getStore.bind(this),\n
getComponents: this.getComponents.bind(this),\n
getState:
this.getStore().getState,\n
getConfigs: this._getConfigs.bind(this),\n
Im,\n
React\n },
this.system.rootInjects || {})\n }\n\n _getConfigs(){\n return this.system.configs\n }\n\n getConfigs() {\n
return {\n
configs: this.system.configs\n }\n }\n\n setConfigs(configs) {\n this.system.configs = configs\n
}\n\n rebuildReducer() {\n this.store.replaceReducer(buildReducer(this.system.statePlugins))\n }\n\n /**\n *
Generic getter from system.statePlugins\n *\n */\n getType(name) {\n let upName = name[0].toUpperCase() +
name.slice(1)\n return objReduce(this.system.statePlugins, (val, namespace) => {\n
let thing = val[name]\n
if(thing)\n
return {[namespace+upName]: thing}\n
})\n }\n\n getSelectors() {\n return
this.getType(\"selectors\")\n }\n\n getActions() {\n let actionHolders = this.getType(\"actions\")\n\n return
objMap(actionHolders, (actions) => {\n return objReduce(actions, (action, actionName) => {\n
if(isFn(action))\n
return {[actionName]: action}\n
})\n })\n }\n\n
getWrappedAndBoundActions(dispatch) {\n let actionGroups = this.getBoundActions(dispatch)\n
return
objMap(actionGroups, (actions, actionGroupName) => {\n
let wrappers =
this.system.statePlugins[actionGroupName.slice(0,-7)].wrapActions\n
if(wrappers) {\n
return
objMap(actions, (action, actionName) => {\n
let wrap = wrappers[actionName]\n
if(!wrap) {\n
return action\n
}\n\n
if(!Array.isArray(wrap)) {\n
wrap = [wrap]\n
}\n
return wrap.reduce((acc, fn) => {\n
let newAction = (...args) => {\n
return fn(acc,
this.getSystem())(...args)\n
}\n
if(!isFn(newAction)) {\n
throw new
TypeError(\"wrapActions needs to return a function that returns a new function (ie the wrapped action)\")\n
}\n
return wrapWithTryCatch(newAction)\n
}, action || Function.prototype)\n
})\n
}\n
return actions\n
})\n }\n\n getWrappedAndBoundSelectors(getState, getSystem) {\n let selectorGroups =
this.getBoundSelectors(getState, getSystem)\n
return objMap(selectorGroups, (selectors, selectorGroupName)
=> {\n
let stateName = [selectorGroupName.slice(0, -9)] // selectors = 9 chars\n
let wrappers =
this.system.statePlugins[stateName].wrapSelectors\n
if(wrappers) {\n
return objMap(selectors,
(selector, selectorName) => {\n
let wrap = wrappers[selectorName]\n
if(!wrap) {\n
return
selector\n
}\n\n
if(!Array.isArray(wrap)) {\n
wrap = [wrap]\n
}\n
return
wrap.reduce((acc, fn) => {\n
let wrappedSelector = (...args) => {\n
return fn(acc,

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for(let actionName in wrapActions) {
    let action = wrapActions[actionName];
    // This should only happen if dest is the first plugin, since invocations after that will ensure its an array
    if(!Array.isArray(action)) {
        action = [action];
        wrapActions[actionName] = action; // Put the value inside an array
    }

    return deepExtend(dest, src)
}

  return deepExtend(dest, src)
}

function buildReducer(states) {
  let reducerObj = objMap(states, (val) => {
    return val.reducers
  })
  return allReducers(reducerObj)
}

function allReducers(reducerSystem) {
  let
    reducers = Object.keys(reducerSystem).reduce((obj, key) => {
      obj[key] = makeReducer(reducerSystem[key])
      return obj
    },{})

  if(!Object.keys(reducers).length) {
    return idFn
  }

  return combineReducers(reducers)
}

function makeReducer(reducerObj) {
  return (state = new Map(), action) => {
    if(!reducerObj)
      return state

    let redFn = (reducerObj[action.type])
    if(redFn) {
      const res =
        wrapWithTryCatch(redFn)(state, action)
      // If the try/catch wrapper kicks in, we'll get null back... in that case, we want to avoid making any changes to state
      return res === null ? state : res
    }
    return state
  }
}

function wrapWithTryCatch(fn, {
  logErrors = true
} = {}) {
  if(typeof fn !== "function") {
    return fn
  }

  return function(...args) {
    try {
      return fn.call(this, ...args)
    } catch(e) {
      if(logErrors) {
        console.error(e)
      }
      return null
    }
  }
}

function configureStore(rootReducer, initialState, getSystem) {
  const store = createStoreWithMiddleware(rootReducer, initialState, getSystem)

  // if(module.hot) {
  //   // Enable Webpack hot module replacement for reducers
  //   module.hot.accept("reducers/index", () => {
  //     const nextRootReducer = require("reducers/index")
  //     store.replaceReducer(nextRootReducer)
  //   })
  // }

  return store
}

var $Object = require('../../modules/_core').Object;
module.exports = function defineProperty(it, key, desc) {
  return $Object.defineProperty(it, key, desc);
};

var $export = require('./_export');
// 19.1.2.4 / 15.2.3.6 Object.defineProperty(O, P, Attributes)
$export($export.S + $export.F * !require('./_descriptors'), 'Object', { defineProperty: require('./_object-dp').f });

var $Object = require('../../modules/_core-js/library/fn/object/define-property.js');
module.exports = function defineProperty(it, key, desc) {
  return $Object.defineProperty(it, key, desc);
};

var $export = require('./_export');
// 19.1.2.4 / 15.2.3.6 Object.defineProperty(O, P, Attributes)
$export($export.S + $export.F * !require('./_descriptors'), 'Object', { defineProperty: require('./_object-dp').f });

var $export = require('./_object-assign');
module.exports = require('../../modules/es6.object.assign');

var $export = require('./_object-assign');
module.exports = require('./node_modules/core-js/library/fn/object/assign.js');

var $export = require('./_object-assign');
module.exports = require('./node_modules/core-js/library/fn/object/assign.js');

var $export = require('./_object-assign');
module.exports = require('./node_modules/core-js/library/fn/object/assign.js');

var $export = require('./_object-assign');
module.exports = require('./node_modules/core-js/library/fn/object/assign.js');

var $export = require('./_object-assign');
module.exports = require('./node_modules/core-js/library/fn/object/assign.js');

var $export = require('./_object-assign');
module.exports = require('./node_modules/core-js/library/fn/object/assign.js');
to fire.
    throw new Error(message);
  }
  printWarning.apply(undef, [format].concat(ary));
});

module.exports = lowPriorityWarning;

/////////////////////
// WEBPACK FOOTER
// module id = 538
// module chunks = 0
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var PooledClass = require('./PooledClass');
var ReactElement = require('./ReactElement');

var emptyFunction = require('fbjs/lib/emptyFunction');
var traverseAllChildren = require('./traverseAllChildren');

var twoArgumentPooler = PooledClass.twoArgumentPooler;
var fourArgumentPooler = PooledClass.fourArgumentPooler;

var userProvidedKeyEscapeRegex = /\/+/g;
function escapeUserProvidedKey(text) {
  return ('' + text).replace(userProvidedKeyEscapeRegex, '$&/');
}

/**
 * PooledClass representing the bookkeeping associated with performing a child
 * traversal. Allows avoiding binding callbacks.
 *
 * @constructor ForEachBookKeeping
 * @param {!function} forEachFunction Function to
 * perform traversal with.
 * @param {?*} forEachContext Context to perform context with.
 */
function ForEachBookKeeping(forEachFunction, forEachContext) {
  this.func = forEachFunction;
  this.context = forEachContext;
  this.count = 0;
}

function forEachSingleChild(bookKeeping, child, name) {
  var func = bookKeeping.func,
      context = bookKeeping.context;

  func.call(context, child, bookKeeping.count++);
}

/**
 * Iterates through children that are typically specified as `props.children`.
 *
 * See https://facebook.github.io/react/docs/top-level-api.html#react.children.foreach
 *
 * The provided
 * forEachFunc(child, index) will be called for each
 * leaf child.
 *
 * @param {?*} children Children tree
 * container.
 * @param {function(*, int)} forEachFunc
 * @param {*} forEachContext Context for
 */
function forEachChildren(children, forEachFunc, forEachContext) {
  if (children == null)
    { return children; } 
  var traverseContext = ForEachBookKeeping.getPooled(forEachFunc,
    forEachContext);
  traverseAllChildren(children, forEachSingleChild, traverseContext);
  ForEachBookKeeping.release(traverseContext);
}

/**
 * PooledClass representing the bookkeeping associated with performing a child
 * mapping. Allows avoiding binding callbacks.
 *
 * @constructor MapBookKeeping
 * @param {!*} mapResult Object containing the ordered map of results.
 * @param {!function} mapFunction Function to perform mapping with.
 * @param {?*} mapContext Context to perform mapping with.
 */
function MapBookKeeping(mapResult, keyPrefix, mapFunction, mapContext) {
  this.result = mapResult;
  this.keyPrefix = keyPrefix;
  this.func = mapFunction;
  this.context = mapContext;
  this.count = 0;
}

function mapSingleChildIntoContext(bookKeeping, child, childKey) {
  var result = bookKeeping.result,
      keyPrefix = bookKeeping.keyPrefix,
      func = bookKeeping.func,
      context = bookKeeping.context;

  var mappedChild = func.call(context, child, bookKeeping.count++);
  if (Array.isArray(mappedChild)) {
    mapIntoWithKeyPrefixInternal(mappedChild, result, keyPrefix + '/');
  } else if (mappedChild != null) {
    if (ReactElement.isValidElement(mappedChild)) {
      mappedChild = ReactElement.cloneAndReplaceKey(mappedChild, keyPrefix + '/');
    }
  }
}

function mapIntoWithKeyPrefixInternal(children, array, prefix, func, context) {
  var result = [];
  for (var _len = arguments.length, args = Array(_len > 5 ? _len - 5 : 0), _key = 5; _key < _len; _key++) {
    args[_key - 5] = arguments[_key];
  }
  func.call(context, children, prefix + context, result);
  array.push.apply(array, result);
}

function userProvidedKeyEscapeRegex() {
  return userProvidedKeyEscapeRegex();
}

function escapeUserProvidedKey(text) {
  return text.replace(userProvidedKeyEscapeRegex(), '$&/');
}

function traverseAllChildren(element, func, context) {
  var rs;
  if (element == null) {
    return;
  }

  var _len = arguments.length,
      _args = Array(_len > 4 ? _len - 4 : 0),
      _key = 4;

  for (; _key < _len; _key++) {
    _args[_key - 4] = arguments[_key];
  }

  func.call(context, element, context, child, childKey);

  if (Array.isArray(element)) {
    traverseAllChildren(element, func, context);
  }
}

function updatedChildren(prevChildren, nextChildren, context) {
  var x = prevChildren;
  var y = nextChildren;
  var result = [];
  for (var _len2 = arguments.length, args = Array(_len2 > 3 ? _len2 - 3 : 0), _key2 = 3; _key2 < _len2; _key2++) {
    args[_key2 - 3] = arguments[_key2];
  }

  var childStart = 0;
  var childEnd = prevChildren.length;
  while (true) {
    var i = childStart;
    while (i < childEnd) {
      var child = x[i];
      if (child !== y[i]) {
        result.push(child);
        childStart = i + 1;
      } else if (i === childEnd - 1) {
        break;
      }

      i++;
    }

    if (i === childEnd) {
      break;
    }

    childStart = i;
    var childStart2 = childStart;

    i = childStart2;
    while (i < childEnd) {
      var child = y[i];
      if (child !== x[i]) {
        result.push(child);
        childEnd = i - 1;
      } else if (i === childStart2 - 1) {
        break;
      }

      i++;
    }

    if (i === childEnd) {
      break;
    }

    childEnd = i;
  }

  return result;
}

function shouldUpdateChildren(prev, next) {
  if (prev == null) {
    return !!next;
  }

  if (next == null) {
    return !prev;
  }

  return updatedChildren(prev, next);
}

function ReactElementKeyCreator(child) {
  return child.key;
}

function mapIntoWithKeyPrefixInternal$1(children, array, prefix, func, context) {
  var result = [];
  for (var _len3 = arguments.length, args = Array(_len3 > 5 ? _len3 - 5 : 0), _key3 = 5; _key3 < _len3; _key3++) {
    args[_key3 - 5] = arguments[_key3];
  }

  func.call(context, children, prefix + context, result);
  array.push.apply(array, result);
}

function shallowEqual(x, y) {
  if (x === y) {
    return true;
  }

  if (x == null || y == null) {
    return false;
  }

  if (typeof x != 'object' || typeof y != 'object') {
    return false;
  }

  var _len = arguments.length,
      _args = Array(_len > 2 ? _len - 2 : 0),
      _key = 2;

  for (; _key < _len; _key++) {
    _args[_key - 2] = arguments[_key];
  }

  return x.isReactElement == y.isReactElement && x.key == y.key &&
      x.type == y.type && x.props == shallowEqual(x.props, y.props) &&
      x.children == shallowEqual(x.children, y.children) &&
      x._ref == y._ref && x._sc == y._sc;
}

function isValidElement(child) {
  return child && (typeof child == 'object' && (child.isReactElement ||
    child.$$typeof && child.$$typeof.toString() === '[object ReactElement]') ||
    false);
}

console.log('this is the output of the code');

module.exports = lowPriorityWarning;


/////////////////////////
var traverseContext = MapBookKeeping.getPooled(array, escapedPrefix, func, context);
traverseAllChildren(children, mapSingleChildIntoContext, traverseContext);
MapBookKeeping.release(traverseContext);

var traverseContext = MapBookKeeping.getPooled(array, escapedPrefix, func, context);
traverseAllChildren(children, mapSingleChildIntoContext, traverseContext);
MapBookKeeping.release(traverseContext);
}

/**
 * Maps children that are typically specified as
 * `props.children`. See https://facebook.github.io/react/docs/top-level-api.html#react.children.map
 * @param {Array} children The provided map function(child, key, index) will be called for each child.
 * @param {Function} func The map function.
 * @param {*} context Context for the map function.
 */

function mapChildren(children, func, context) {
  if (children == null) {
    return children;
  }
  var result = [];
  mapIntoWithKeyPrefixInternal(children, result, null, func, context);
  return result;
}

function forEachSingleChildDummy(traverseContext, child, name) {
  return null;
}

/**
 * Count the number of children that are typically specified as
 * `props.children`. See https://facebook.github.io/react/docs/top-level-api.html#react.children.count
 * and return an array with appropriately re-keyed children.
 */

function countChildren(children, context) {
  return traverseAllChildren(children, forEachSingleChildDummy, null);
}

/**
 * Flatten a children object (typically specified as `props.children`) and return an array with appropriately re-keyed children.
 */

function toArray(children) {
  var result = [];
  mapIntoWithKeyPrefixInternal(children, result, null, emptyFunction.thatReturnsArgument);
  return result;
}

var ReactChildren = {
  forEach: forEachChildren,
  map: mapChildren,
  mapIntoWithKeyPrefixInternal: mapIntoWithKeyPrefixInternal,
  count: countChildren,
  toArray: toArray
};

module.exports = ReactChildren;


//////////////////
// WEBPACK FOOTER
// module id = 539
// module chunks = 0

var _prodInvariant = require('./reactProdInvariant');
var invariant = require('fbjs/lib/invariant');

/**
 * Static poolers. Several custom versions for each potential number of arguments. A completely generic pooler is easy to implement, but would require accessing the `arguments` object. In each of these, 'this' refers to the Class itself, not an instance. If any others are needed, simply add them here, or in their own files.
 */
var oneArgumentPooler = function (copyFieldsFrom) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, copyFieldsFrom);
    return instance;
  } else {
    return new Klass(copyFieldsFrom);
  }
};

var twoArgumentPooler = function (a1, a2) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, a1, a2);
    return instance;
  } else {
    return new Klass(a1, a2);
  }
};

var threeArgumentPooler = function (a1, a2, a3) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, a1, a2, a3);
    return instance;
  } else {
    return new Klass(a1, a2, a3);
  }
};

var fourArgumentPooler = function (a1, a2, a3, a4) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, a1, a2, a3, a4);
    return instance;
  } else {
    return new Klass(a1, a2, a3, a4);
  }
};

var standardReleaser = function (instance) {
  var Klass = this;
  !(instance instanceof Klass) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Trying to release an instance into a pool of a different type.') : _prodInvariant('25') : void 0;
  instance.destructor();
  if (Klass.instancePool.length < Klass.poolSize) {
    Klass.instancePool.push(instance);
  }
};

var DEFAULT_POOL_SIZE = 10;
var DEFAULT_POOLER = oneArgumentPooler;

/**
 * Augments `CopyConstructor` to be a poolable class, augmenting only the class itself (statically) not adding any prototypical fields.
 * Any CopyConstructor's * you give this may have a 'poolSize' property, and will look for an * prototype 'destructor' on instances.
 * @param {Function} CopyConstructor Constructor that can be used to reset.
 */

var DEFAULT_POOLER = oneArgumentPooler;

var pooler = new Pooler();

var pooler = new Pooler();

var pooler = new Pooler();
traverseAllChildrenImpl(child, nextName, callback, traverseContext);  
}  
}  
} else if (type === 'object') {  
  var addendum = '';  
  if (process.env.NODE_ENV !== 'production') {  
    addendum = ' If you meant to render a collection of children, use an array ' + 'instead or wrap the object using createFragment(object) from the ' + 'React add-ons.';  
  }  
  if (children._isReactElement) {  
    addendum = ' It looks like you're using an element created by a different ' + 'version of React. Make sure to only one copy of React.';  
  }  
  }  
  var childrenString = String(children);  
  if (children == null) {  
    return 0;  
  }  
  return traverseAllChildrenImpl(children, '', callback, traverseContext);  
}

module.exports = traverseAllChildren;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react/lib/traverseAllChildren.js
// module id = 541
// module chunks = 0


/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

/* global Symbol */

var ITERATOR_SYMBOL = typeof Symbol === 'function' && Symbol.iterator;
var FAUX_ITERATOR_SYMBOL = '@@iterator'; // Before Symbol spec.

/**
 * Returns the iterator method function contained on the iterable
 * object.  
 * Be sure to invoke the function with the iterable as context:
 *  
 *     var iteratorFn = getIteratorFn(myIterable);
 *     if (iteratorFn) {
 *       var iterator = iteratorFn.call(myIterable);
 *       ...
 *     }
 *
 * @param {?object} maybeIterable
 * @return {?function}
 */
function getIteratorFn(maybeIterable) {

  var iteratorFn = maybeIterable && (ITERATOR_SYMBOL && maybeIterable[ITERATOR_SYMBOL] ||
  maybeIterable[FAUX_ITERATOR_SYMBOL]);
  if (typeof iteratorFn === 'function') {
    return iteratorFn;
  }
}

module.exports = getIteratorFn;


/**
 * Create a factory that creates HTML
Open Source Used in SDWan 20.6.1  21425

tag elements.


* *

* @private

*/

var createDOMFactory = ReactElement.createFactory;

if (process.env.NODE_ENV !== 'production') {
  var ReactElementValidator = require('./ReactElementValidator');
  createDOMFactory = ReactElementValidator.createFactory;
}

/**
 * Creates a mapping from supported HTML tags to `ReactDOMComponent` classes.
 *
 * `render` will choose the appropriate class.
 */

var ReactDOMFactories = {
  a: createDOMFactory('a'),
  abbr: createDOMFactory('abbr'),
  address: createDOMFactory('address'),
  area: createDOMFactory('area'),
  article: createDOMFactory('article'),
  aside: createDOMFactory('aside'),
  audio: createDOMFactory('audio'),
  b: createDOMFactory('b'),
  base: createDOMFactory('base'),
  bdi: createDOMFactory('bdi'),
  bdo: createDOMFactory('bdo'),
  big: createDOMFactory('big'),
  blockquote: createDOMFactory('blockquote'),
  body: createDOMFactory('body'),
  br: createDOMFactory('br'),
  button: createDOMFactory('button'),
  canvas: createDOMFactory('canvas'),
  caption: createDOMFactory('caption'),
  cite: createDOMFactory('cite'),
  code: createDOMFactory('code'),
  col: createDOMFactory('col'),
  colgroup: createDOMFactory('colgroup'),
  data: createDOMFactory('data'),
  datalist: createDOMFactory('datalist'),
  dd: createDOMFactory('dd'),
  del: createDOMFactory('del'),
  details: createDOMFactory('details'),
  dfn: createDOMFactory('dfn'),
  dialog: createDOMFactory('dialog'),
  div: createDOMFactory('div'),
  dl: createDOMFactory('dl'),
  dt: createDOMFactory('dt'),
  em: createDOMFactory('em'),
  embed: createDOMFactory('embed'),
  fieldset: createDOMFactory('fieldset'),
  figcaption: createDOMFactory('figcaption'),
  figure: createDOMFactory('figure'),
  footer: createDOMFactory('footer'),
  form: createDOMFactory('form'),
  h1: createDOMFactory('h1'),
  h2: createDOMFactory('h2'),
  h3: createDOMFactory('h3'),
  h4: createDOMFactory('h4'),
  h5: createDOMFactory('h5'),
  h6: createDOMFactory('h6'),
  head: createDOMFactory('head'),
  header: createDOMFactory('header'),
  hgroup: createDOMFactory('hgroup'),
  hr: createDOMFactory('hr'),
  html: createDOMFactory('html'),
  i: createDOMFactory('i'),
  iframe: createDOMFactory('iframe'),
  img: createDOMFactory('img'),
  input: createDOMFactory('input'),
  ins: createDOMFactory('ins'),
  kbd: createDOMFactory('kbd'),
  keygen: createDOMFactory('keygen'),
  label: createDOMFactory('label'),
  legend: createDOMFactory('legend'),
  li: createDOMFactory('li'),
  link: createDOMFactory('link'),
  main: createDOMFactory('main'),
  map: createDOMFactory('map'),
  mark: createDOMFactory('mark'),
  menu: createDOMFactory('menu'),
  menuitem: createDOMFactory('menuitem'),
  meta: createDOMFactory('meta'),
  meter: createDOMFactory('meter'),
  nav: createDOMFactory('nav'),
  noscript: createDOMFactory('noscript'),
  object: createDOMFactory('object'),
  ol: createDOMFactory('ol'),
  optgroup: createDOMFactory('optgroup'),
  option: createDOMFactory('option'),
  output: createDOMFactory('output'),
  p: createDOMFactory('p'),
  param: createDOMFactory('param'),
  picture: createDOMFactory('picture'),
  pre: createDOMFactory('pre'),
  progress: createDOMFactory('progress'),
  q: createDOMFactory('q'),
  rp: createDOMFactory('rp'),
  rt: createDOMFactory('rt'),
  ruby: createDOMFactory('ruby'),
  s: createDOMFactory('s'),
  samp: createDOMFactory('samp'),
  script: createDOMFactory('script'),
  section: createDOMFactory('section'),
  select: createDOMFactory('select'),
  small: createDOMFactory('small'),
  source: createDOMFactory('source'),
  span: createDOMFactory('span'),
  strong: createDOMFactory('strong'),
  style: createDOMFactory('style'),
  sub: createDOMFactory('sub'),
  summary: createDOMFactory('summary'),
  sup: createDOMFactory('sup'),
  table: createDOMFactory('table'),
  tbody: createDOMFactory('tbody'),
  td: createDOMFactory('td'),
  text: createDOMFactory('text'),
  tbody: createDOMFactory('tbody'),
  th: createDOMFactory('th'),
  thead: createDOMFactory('thead'),
  time: createDOMFactory('time'),
  title: createDOMFactory('title'),
  track: createDOMFactory('track'),
  u: createDOMFactory('u'),
  ul: createDOMFactory('ul'),
  var: createDOMFactory('var'),
  video: createDOMFactory('video'),
  wbr: createDOMFactory('wbr'),
  // SVG
  circle: createDOMFactory('circle'),
  clipPath: createDOMFactory('clipPath'),
  defs: createDOMFactory('defs'),
  ellipse: createDOMFactory('ellipse'),
  g: createDOMFactory('g'),
  image: createDOMFactory('image'),
  line: createDOMFactory('line'),
  linearGradient: createDOMFactory('linearGradient'),
  mask: createDOMFactory('mask'),
  path: createDOMFactory('path'),
  pattern: createDOMFactory('pattern'),
  polygon: createDOMFactory('polygon'),
  polyline: createDOMFactory('polyline'),
  radialGradient: createDOMFactory('radialGradient'),
  rect: createDOMFactory('rect'),
  stop: createDOMFactory('stop'),
  svg:
```javascript
return x !== 0 || 1 / x === 1 / y;
    } else {
      // Step 6.a: NaN == NaN
      return x !== x && y !== y;
    }
  }

  /**
   * We use an Error-like object for backward compatibility as people may call
   * PropTypes directly and inspect their output. However, we don't use real
   * Errors anymore. We don't inspect their stack anyway, and creating them
   * is prohibitively expensive if they are created too often, such as what
   * happens in oneOfType() for any type before the one that matched.
   */

  function PropTypeError(message) {
    this.message = message;
    this.stack = '';
  }
  // Make `instanceof Error` still work for returned errors.

  function checkType(isRequired, props, propName, componentName, location, propFullName, secret) {
    componentName = componentName || ANONYMOUS;
    propFullName = propFullName || propName;
    if (secret !== ReactPropTypesSecret) {
      invariant(false, 'Calling PropTypes validators directly is not supported by the `prop-types` package. ' +
      'Use PropTypes.checkPropTypes() to call them. ' +
      'Read more at http://fb.me/use-check-prop-types');
    } else if (process.env.NODE_ENV !== 'production' && typeof console !== 'undefined') {
      var cacheKey = componentName + ':' + propName;
      if (manualPropTypeCallCache[cacheKey] && manualPropTypeWarningCount < 3) {
        warning(false, 'You are manually calling a React.PropTypes validation ' +
        'function for the `%s` prop on `%s`. This is deprecated ' +
        'and will throw in the standalone `prop-types` package. ' +
        'You may be seeing this warning due to a third-party PropTypes library. See https://fb.me/react-warning-dont-call-proptypes' + ' for details.');
      }
      if (props[propName] == null) {
        if (isRequired) {
          if (props[propName] === null) {
            return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required ' + ('in `' + componentName + '`, but its value is `null`.'));
          }
          return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required in ' + ('`' + componentName + '`, but its value is `undefined`.'));
        }
        return null;
      } else {
        return validate(props, propName, componentName, location, propFullName, secret);
      }
    }

    var propValue = props[propName];
    var propType = getPropType(propValue);
    if (propType !== expectedType) {
      var preciseType = getPreciseType(propValue);
      return new PropTypeError('Invalid ' + location + ' `' + propFullName + '` of type `' + ('`' + preciseType + '` supplied to `' + componentName + '`, expected ' + ('`' + expectedType + '`.'));
    }
    return null;
  }

  // This allows you to run custom checks in the `afterValidator` callback,
  // which is only called after all other custom checks have passed.

  function createChainableTypeChecker(validate) {
    if (process.env.NODE_ENV !== 'production') {
      var manualPropTypeCallCache = {};
      var manualPropTypeWarningCount = 0;
    }
    function checkType(isRequired, props, propName, componentName, location, propFullName, secret) {
      componentName = componentName || ANONYMOUS;
      propFullName = propFullName || propName;

      if (secret !== ReactPropTypesSecret) {
        if (throwOnDirectAccess) {
          // New behavior only for users of
          // the `prop-types` package
          invariant(false,
            'Calling PropTypes validators directly is not supported by the `prop-types` package. ' +
            'Use `PropTypes.checkPropTypes()` to call them. ' +
            'Read more at http://fb.me/use-check-prop-types'
          );
        } else if (process.env.NODE_ENV !== 'production' && typeof console !== 'undefined') {
          var cacheKey = componentName + ':' + propName;
          if (manualPropTypeCallCache[cacheKey] && manualPropTypeWarningCount < 3) {
            warning(false, 'You are manually calling a React.PropTypes validation ' +
            'function for the `%s` prop on `%s`. This is deprecated ' +
            'and will throw in the standalone `prop-types` package. ' +
            'You may be seeing this warning due to a third-party PropTypes library. See https://fb.me/react-warning-dont-call-proptypes' + ' for details.');
          }
        }
      }
      if (props[propName] == null) {
        if (isRequired) {
          if (props[propName] === null) {
            return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required ' + ('in `' + componentName + '`, but its value is `null`.'));
          }
          return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required in ' + ('`' + componentName + '`, but its value is `undefined`.'));
        }
        return null;
      } else {
        return validate(props, propName, componentName, location, propFullName, secret);
      }
    }

    var chainedCheckType = checkType.bind(null, false);
    chainedCheckType.isRequired = checkType.bind(null, true);
    return chainedCheckType;
  }

  function createAnyTypeChecker() {
    return createChainableTypeChecker(emptyFunction.thatReturnsNull);
  }

  function createArrayOfTypeChecker(typeChecker) {
    function validate(props, propName, componentName, location, propFullName) {
      if (typeof typeChecker !== 'function') {
        return new PropTypeError('Property `' + propFullName + '` of component `' + componentName + '` has invalid PropType notation inside arrayOf.');
      }
      var propValue = props[propName];
      if (!Array.isArray(propValue)) {
        var propType = getPropType(propValue);
        return new PropTypeError('Invalid ' + location + ' `' + propFullName + '` of type `' + ('`' + propType + '` supplied to `' + componentName + '`, expected an array.'));
      }
      for (var i = 0; i < propValue.length; i++) {
        var error = typeChecker(propValue, i, componentName, location, propFullName + ['' + i + ''], ReactPropTypesSecret);
        if (error instanceof Error) {
          return error;
        }
      }
      return null;
    }
    return createChainableTypeChecker(validate);
  }

  function createElementTypeChecker() {
```
<div>Hello World</div>

```javascript
*the class specification supports a specific protocol of
methods that have special meaning (e.g. `render`). See `ReactClassInterface` for more the comprehensive
protocol. Any other properties and methods in the class specification will be available on the prototype.

*the component's constructor instead of its prototype (static methods).

* @interface ReactClassInterface
* @internal
* var ReactClassInterface = {
*   /**
* An array of Mixin objects to include when defining your component.
*   *
*   * @type {array}
*   * @optional
*   */
* mixins: 'DEFINE_MANY',

**
* * An object containing properties and methods that should be defined on
* * the component's constructor instead of its prototype (static methods).
* * @type {object}
* * @optional
* * @interface ReactClassInterface
* * @statics: 'DEFINE_MANY',

**
* * Definition of prop types for this component.
* * @type {object}
* * @optional
* * @interface ReactClassInterface
* * @statics: 'DEFINE_MANY',

**
* * Definition of context types for this component.
* * @type {object}
* * @optional
* * @interface ReactClassInterface
* * @contextTypes: 'DEFINE_MANY',

**
* * Definition of context types this component sets for its children.
* * @type {object}
* * @optional
* * @interface ReactClassInterface
* * @childContextTypes: 'DEFINE_MANY',

```

* The class specification supports a specific protocol of
methods that have special meaning (e.g. `render`). See `ReactClassInterface` for more comprehensive
protocol. Any other properties and methods in the class specification will be available on the prototype.

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*   */
* mixins: 'DEFINE_MANY',

**
* * An object containing properties and methods that should be defined on
* * the component's constructor instead of its prototype (static methods).
* * @type {object}
* * @optional
* * @interface ReactClassInterface
* * @statics: 'DEFINE_MANY',

**
* * Definition of prop types for this component.
* * @type {object}
* * @optional
* * @interface ReactClassInterface
* * @statics: 'DEFINE_MANY',

**
* * Definition of context types for this component.
* * @type {object}
* * @optional
* * @interface ReactClassInterface
* * @contextTypes: 'DEFINE_MANY',

**
* * Definition of context types this component sets for its children.
* * @type {object}
* * @optional
* * @interface ReactClassInterface
* * @childContextTypes: 'DEFINE_MANY',

```

* This may have side effects, but any external subscriptions or data created by this method must be cleaned
* up in `componentWillUnmount`.

* @param {DOMElement} rootNode DOM element representing the component.

* Use this as an opportunity to perform preparation before an update occurs.

```
NOTE: You cannot use `this.setState()` in this method.

```javascript
* @param {object} nextProps
* @param {object} nextState
* @param {object} nextContext
* @param {ReactReconcileTransaction} transaction
* @optional
*/
componentWillUpdate: 'DEFINE_MANY',

/**
* Invoked when the component's DOM representation has been updated.
* Use this as an opportunity to operate on the DOM when the component has
* been updated.
* @optional
* @param {object} prevProps
* @param {object} prevContext
* @param {DOMElement} rootNode DOM element representing the component.
* @optional
*/
componentDidUpdate: 'DEFINE_MANY',

/**
* Resets the component's state to the initial value prior to rendering.
* @optional
*/
getInitialState: 'OVERRIDE_BASE',

/**
* Invoked when the component is about to be removed from its parent and have
* its DOM representation destroyed.
* Use this as an opportunity to deallocate any external resources.
* NOTE: There is no `componentWillUnmount` since your component will have
* been destroyed by that point.
* @optional
* @param {object} componentWillUnmount: 'DEFINE_MANY',
* @param {object} /* Replacement for (deprecated) `componentWillMount`.
* @optional
*/
UNSAFE_componentWillMount:

/**
* Replacement for (deprecated) `componentWillReceiveProps`.
* @optional
*/
UNSAFE_componentWillReceiveProps: 'DEFINE_MANY',

/**
* Replacement for (deprecated) `componentWillUpdate`.
* @optional
*/
UNSAFE_componentWillUpdate: 'DEFINE_MANY',

// ==== Advanced methods ====

/**
* Updates the component's currently mounted DOM representation.
* By default, this implements React's rendering and reconciliation
* algorithm.
* Sophisticated clients may wish to override this.
* @param {ReactReconcileTransaction} transaction
* @internal
* @overridable
*/
updateComponent: 'OVERRIDE_BASE'
```

** Similar to ReactClassInterface but for static methods.**

```javascript
* @return {object || null}
* @optional
*/
getDerivedStateFromProps: 'DEFINE_MANY_MERGED'
```

** Mapping from class specification keys to special processing functions.**

```javascript
* Although these are declared like instance properties in the specification
* when defining classes using `React.createClass`, they are actually static
* and are accessible on the constructor instead of the prototype. Despite
* being static, they must be defined outside of the
```

var RESERVED_SPEC_KEYS = {
  displayName: function(Constructor, displayName) {
    Constructor.displayName = displayName;
  },
  mixins: function(Constructor, mixins) {
    if (mixins) {
      for (var i = 0; i < mixins.length; i++) {
        mixSpecIntoComponent(Constructor, mixins[i]);
      }
    }
  },
  contextTypes: function(Constructor, contextTypes) {
    if (process.env.NODE_ENV !== 'production') {
      validateTypeDef(Constructor, contextTypes, 'context');
    }
    Constructor.contextTypes = _assign({}, Constructor.contextTypes, contextTypes);
  },
  statics: function(Constructor, statics) {
    mixStaticSpecIntoComponent(Constructor, statics);
  },
  autobind: function() {}
};
function mixStaticSpecIntoComponent(Constructor, statics) {
  if (!statics) {
    return;
  }

  var property = statics[name];
  if (!statics.hasOwnProperty(name)) {
    return;
  }

  for (var name in statics) {
    var property = statics[name];
    if (!statics.hasOwnProperty(name)) {
      continue;
    }

    var isReserved = name in RESERVED_SPEC_KEYS;
    _invariant(!isReserved, 'ReactClass: You are attempting to define a reserved property, `%s`, that shouldn\'t be on the \"statics\" key. Define it `+in` as an instance property instead; it will still be accessible on the `+in` constructor.');

    var specPolicy = ReactClassStaticInterface.hasOwnProperty(name) ? specPolicy : ReactClassStaticInterface[name] : null;
    _invariant(specPolicy === 'DEFINE_MANY_MERGED', 'ReactClass: You are attempting to define `%s` on your component more than once. This conflict may be `+in` due to a mixin.');

    Constructor[name] = createMergedResultFunction(Constructor[name], property);
  }

  function mergeIntoWithNoDuplicateKeys(one, two) {
    _invariant(one && two && typeof one === 'object' && typeof two === 'object', 'mergeIntoWithNoDuplicateKeys(): Cannot merge non-objects.');

    for (var key in two) {
      if (two.hasOwnProperty(key)) {
        _invariant(one.hasOwnProperty(key), 'mergeIntoWithNoDuplicateKeys(): Tried to merge two objects with the same key: `%s`. This conflict `+in` may be due to a mixin; in particular, this may be caused by two `+in` getInitialState() or getDefaultProps() methods returning objects `+in` with clashing keys.');
        one[key] = two[key];
      }
    }
    return one;
  }

  function createMergedResultFunction(one, two) {
    return function mergedResult() {
      var a = one.apply(this, arguments);
      var b = two.apply(this, arguments);
      if (a == null) {
        return b;
      } else if (b == null) {
        return a;
      }
      var c = {};
      mergeIntoWithNoDuplicateKeys(c, a);
      mergeIntoWithNoDuplicateKeys(c, b);
      return c;
    };
  }

  function bindAutoBindMethod(component, method) {
    var boundMethod = method.bind(component);
    if (process.env.NODE_ENV !== 'production') {
      boundMethod.__reactBoundContext = component;
      boundMethod.__reactBoundMethod = method;
      boundMethod.__reactBoundArguments = null;
      var componentName = component.constructor.displayName;
      var _bind = boundMethod.bind;
      boundMethod.bind = function(newThis) {
        for (var len = arguments.length, args = Array(_len > 1 ? _len - 1 : 0), _key = 1; _key < len; _key++) {
          args[_key - 1] = arguments[_key];
        }
        _bind.apply(boundMethod, arguments);
      };
      warning(boundMethod.__reactBoundContext === component, 'React does this for you automatically in a high-performance way, so you can safely remove this call. See %s', componentName);
      var reboundMethod = _bind.apply(boundMethod, arguments);
      }
it's not, then it's likely a\n
// mistake so we'll warn you to use the static property, property\n
// initializer or
constructor respectively.\n
if (Constructor.getDefaultProps) {\n
Constructor.getDefaultProps.isReactClassApproved = {};\n
}\n
if (Constructor.prototype.getInitialState) {\n
Constructor.prototype.getInitialState.isReactClassApproved = {};\n
}\n }\n\n _invariant(\n
Constructor.prototype.render,\n
'createClass(...): Class specification must implement a `render` method.'\n
);\n\n if (process.env.NODE_ENV !== 'production') {\n
warning(\n
!Constructor.prototype.componentShouldUpdate,\n
'%s has a method called ' +\n
'componentShouldUpdate(). Did you mean shouldComponentUpdate()? ' +\n
'The name is phrased as a
question because the function is ' +\n
'expected to return a value.',\n
spec.displayName || 'A component'\n
);\n
warning(\n
!Constructor.prototype.componentWillRecieveProps,\n
'%s has a method called ' +\n
'componentWillRecieveProps(). Did you mean componentWillReceiveProps()?',\n
spec.displayName || 'A
component'\n
);\n
warning(\n
!Constructor.prototype.UNSAFE_componentWillRecieveProps,\n
'%s
has a method called UNSAFE_componentWillRecieveProps(). ' +\n
'Did you mean
UNSAFE_componentWillReceiveProps()?',\n
spec.displayName || 'A component'\n
);\n }\n\n // Reduce
time spent doing lookups by setting these on the prototype.\n for (var methodName in ReactClassInterface) {\n
if (!Constructor.prototype[methodName]) {\n
Constructor.prototype[methodName] = null;\n
}\n }\n\n
return Constructor;\n }\n\n return createClass;\n}\n\nmodule.exports = factory;\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/create-react-class/factory.js\n// module id = 550\n// module chunks = 0","/**\n *
Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n
* LICENSE file in the root directory of this source tree.\n *\n */\n'use strict';\n\nvar _prodInvariant =
require('./reactProdInvariant');\n\nvar ReactElement = require('./ReactElement');\n\nvar invariant =
require('fbjs/lib/invariant');\n\n/**\n * Returns the first child in a collection of children and verifies that there\n * is
only one child in the collection.\n *\n * See https://facebook.github.io/react/docs/top-levelapi.html#react.children.only\n *\n * The current implementation of this function assumes that a single child gets\n *
passed without a wrapper, but the purpose of this helper function is to\n * abstract away the particular structure of
children.\n *\n * @param {?object} children Child collection structure.\n * @return {ReactElement} The first and
only `ReactElement` contained in the\n * structure.\n */\nfunction onlyChild(children) {\n
!ReactElement.isValidElement(children) ? process.env.NODE_ENV !== 'production' ? invariant(false,
'React.Children.only expected to receive a single React element child.') : _prodInvariant('143') : void 0;\n return
children;\n}\n\nmodule.exports = onlyChild;\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/react/lib/onlyChild.js\n// module id = 551\n// module chunks = 0","import Symbol from
'./_Symbol.js';\nimport getRawTag from './_getRawTag.js';\nimport objectToString from
'./_objectToString.js';\n\n/** `Object#toString` result references. */\nvar nullTag = '[object Null]',\n undefinedTag
= '[object Undefined]';\n\n/** Built-in value references. */\nvar symToStringTag = Symbol ? Symbol.toStringTag :
undefined;\n\n/**\n * The base implementation of `getTag` without fallbacks for buggy environments.\n *\n *
@private\n * @param {*} value The value to query.\n * @returns {string} Returns the `toStringTag`.\n */\nfunction
baseGetTag(value) {\n if (value == null) {\n return value === undefined ? undefinedTag : nullTag;\n }\n return
(symToStringTag && symToStringTag in Object(value))\n ? getRawTag(value)\n :
objectToString(value);\n}\n\nexport default baseGetTag;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/lodash-es/_baseGetTag.js\n// module id = 552\n// module chunks = 0","import freeGlobal from
'./_freeGlobal.js';\n\n/** Detect free variable `self`. */\nvar freeSelf = typeof self == 'object' && self && self.Object
=== Object && self;\n\n/** Used as a reference to the global object. */\nvar root = freeGlobal || freeSelf ||
Function('return this')();\n\nexport default root;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/lodash-es/_root.js\n// module id = 553\n// module chunks = 0","/** Detect free variable `global`
from Node.js. */\nvar freeGlobal = typeof global == 'object' && global && global.Object === Object &&
global;\n\nexport default freeGlobal;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/lodashes/_freeGlobal.js\n// module id = 554\n// module chunks = 0","import Symbol from './_Symbol.js';\n\n/** Used for
built-in method references. */\nvar objectProto = Object.prototype;\n\n/** Used to check objects for own properties.

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else {\n\t\tresult = '@@observable';\n\t}\n\n\treturn result;\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/symbol-observable/es/ponyfill.js\n// module id = 562\n// module chunks = 0","import {
ActionTypes } from './createStore';\nimport isPlainObject from 'lodash-es/isPlainObject';\nimport warning from
'./utils/warning';\n\nfunction getUndefinedStateErrorMessage(key, action) {\n var actionType = action &&
action.type;\n var actionName = actionType && '\"' + actionType.toString() + '\"' || 'an action';\n\n return 'Given
action ' + actionName + ', reducer \"' + key + '\" returned undefined. ' + 'To ignore an action, you must explicitly
return the previous state. ' + 'If you want this reducer to hold no value, you can return null instead of
undefined.';\n}\n\nfunction getUnexpectedStateShapeWarningMessage(inputState, reducers, action,
unexpectedKeyCache) {\n var reducerKeys = Object.keys(reducers);\n var argumentName = action && action.type
=== ActionTypes.INIT ? 'preloadedState argument passed to createStore' : 'previous state received by the
reducer';\n\n if (reducerKeys.length === 0) {\n return 'Store does not have a valid reducer. Make sure the
argument passed ' + 'to combineReducers is an object whose values are reducers.';\n }\n\n if
(!isPlainObject(inputState)) {\n return 'The ' + argumentName + ' has unexpected type of \"' +
{}.toString.call(inputState).match(/\\s([a-z|A-Z]+)/)[1] + '\". Expected argument to be an object with the following '
+ ('keys: \"' + reducerKeys.join('\", \"') + '\"');\n }\n\n var unexpectedKeys = Object.keys(inputState).filter(function
(key) {\n return !reducers.hasOwnProperty(key) && !unexpectedKeyCache[key];\n });\n\n
unexpectedKeys.forEach(function (key) {\n unexpectedKeyCache[key] = true;\n });\n\n if
(unexpectedKeys.length > 0) {\n return 'Unexpected ' + (unexpectedKeys.length > 1 ? 'keys' : 'key') + ' ' + ('\"' +
unexpectedKeys.join('\", \"') + '\" found in ' + argumentName + '. ') + 'Expected to find one of the known reducer
keys instead: ' + ('\"' + reducerKeys.join('\", \"') + '\". Unexpected keys will be ignored.');\n }\n}\n\nfunction
assertReducerShape(reducers) {\n Object.keys(reducers).forEach(function (key) {\n var reducer =
reducers[key];\n var initialState = reducer(undefined, { type: ActionTypes.INIT });\n\n if (typeof initialState
=== 'undefined') {\n
throw new Error('Reducer \"' + key + '\" returned undefined during initialization. ' + 'If the
state passed to the reducer is undefined, you must ' + 'explicitly return the initial state. The initial state may ' + 'not
be undefined. If you don\\'t want to set a value for this reducer, ' + 'you can use null instead of undefined.');\n }\n\n
var type = '@@redux/PROBE_UNKNOWN_ACTION_' +
Math.random().toString(36).substring(7).split('').join('.');\n if (typeof reducer(undefined, { type: type }) ===
'undefined') {\n
throw new Error('Reducer \"' + key + '\" returned undefined when probed with a random type. ' +
('Don\\'t try to handle ' + ActionTypes.INIT + ' or other actions in \"redux/*\" ') + 'namespace. They are considered
private. Instead, you must return the ' + 'current state for any unknown actions, unless it is undefined, ' + 'in which
case you must return the initial state, regardless of the ' + 'action type. The initial state may not be undefined, but can
be null.');\n }\n });\n}\n\n/**\n * Turns an object whose values are different reducer functions, into a single\n *
reducer function. It will call every child reducer, and gather their results\n * into a single state object, whose keys
correspond to the keys of the passed\n * reducer functions.\n *\n * @param {Object} reducers An object whose
values correspond to different\n * reducer functions that need to be combined into one. One handy way to obtain\n *
it is to use ES6 `import * as reducers` syntax. The reducers may never return\n * undefined for any action. Instead,
they should return their initial state\n * if the state passed to them was undefined, and the current state for any\n *
unrecognized action.\n *\n * @returns {Function} A reducer function that invokes every reducer inside the\n *
passed object, and builds a state object with the same shape.\n */\nexport default function
combineReducers(reducers) {\n var reducerKeys = Object.keys(reducers);\n var finalReducers = {};\n for (var i =
0; i < reducerKeys.length; i++) {\n var key = reducerKeys[i];\n\n if (process.env.NODE_ENV !== 'production')
{\n
if (typeof reducers[key] === 'undefined') {\n
warning('No reducer provided for key \"' + key + '\"');\n
}\n }\n\n if (typeof reducers[key] === 'function') {\n
finalReducers[key] = reducers[key];\n }\n }\n var
finalReducerKeys = Object.keys(finalReducers);\n\n var unexpectedKeyCache = void 0;\n if
(process.env.NODE_ENV !== 'production') {\n unexpectedKeyCache = {};\n }\n\n var shapeAssertionError =
void 0;\n try {\n assertReducerShape(finalReducers);\n } catch (e) {\n shapeAssertionError = e;\n }\n\n return
function combination() {\n var state = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] :
{};\n var action = arguments[1];\n\n if (shapeAssertionError) {\n
throw shapeAssertionError;\n }\n\n if

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(process.env.NODE_ENV !== 'production') {\n  var warningMessage =
getUnexpectedStateShapeWarningMessage(state, finalReducers, action, unexpectedKeyCache);\n  if (warningMessage) {\n    warning(warningMessage);\n  }\n}\nvar hasChanged = !\n  for (var _i = 0; _i < finalReducerKeys.length; _i++) {\n    var _key = finalReducerKeys[_i];\n    var reducer = finalReducers[_key];\n    var prevStateForKey = state[_key];\n    var nextStateForKey = reducer(prevStateForKey, action);\n    if (typeof nextStateForKey === 'undefined') {\n      var errorMessage =
getUndefinedStateErrorMessage(_key, action);\n      throw new Error(errorMessage);\n    }\n    nextState[_key] = nextStateForKey;
    hasChanged = hasChanged || nextStateForKey !== prevStateForKey;\n  }\n  return hasChanged ? nextState : state;\n};


//////////////////
// WEBPACK FOOTER

/* module id = 563 */
/* module chunks = 0 */
function bindActionCreators(actionCreators, dispatch) {\n  if (typeof actionCreators === 'function') {\n    return bindActionCreator(actionCreators, dispatch);\n  }\n
  if (typeof actionCreators !== 'object' || actionCreators === null) {\n    throw new Error('bindActionCreators expected an object or a function, instead received ' +
actionCreators === null ? 'null' : typeof actionCreators + '. Did you write "import ActionCreators from\n" instead of "import * as ActionCreators from"?');\n  }\n
  var keys = Object.keys(actionCreators);\n  var boundActionCreators = {};
  for (var i = 0; i < keys.length; i++) {\n    var key = keys[i];\n    var actionCreator = actionCreators[key];\n    if (typeof actionCreator === 'function') {\n      boundActionCreators[key] =
bindActionCreator(actionCreator, dispatch);\n    }\n  }\n  return boundActionCreators;\n}


//////////////////
// WEBPACK FOOTER

/* module id = 564 */
/* module chunks = 0 */
symToStringTag = Symbol ? Symbol.toStringTag : undefined;

/**
 * A specialized version of `baseGetTag` which ignores `Symbol.toStringTag` values.
 * @returns {string} Returns the raw `toStringTag`.
 */
function getRawTag(value) {
  var isOwn = hasOwnProperty.call(value, symToStringTag),
      tag = value[symToStringTag];

  try {
    tag = tag ? tag.toString() : undefined;
  } catch (e) {
    tag = undefined;
  }

  var unmasked = true;

  var result = nativeObjectToString.call(value);
  if (unmasked) {
    if (isOwn) {
      value[symToStringTag] = tag;
    } else {
      delete value[symToStringTag];
    }
  }
  return result;
}

module.exports = getRawTag;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_getRawTag.js
// module id = 577
// module chunks = 0

/**
 * Used to resolve the `toStringTag` of values.
 */
var objectPrototype = Object.prototype;

/**
 * Converts `value` to a string
 * using `Object.prototype.toString`.
 */
function objectToString(value) {
  return objectPrototype.toString.call(value);
}

module.exports = objectToString;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_objectToString.js
// module id = 578

var castSlice = require('./_castSlice'),
    hasUnicode = require('./_hasUnicode'),
    stringToArray = require('./_stringToArray'),
    toString = require('./toString');

/**
 * Creates a function like `_.lowerFirst`.
 */
function createCaseFirst(methodName) {
  return function(string) {
    string = toString(string);

    var strSymbols = hasUnicode(string)
      ? stringToArray(string)
      : undefined;

    var chr = strSymbols
      ? strSymbols[0]
      : string.charAt(0);

    var trailing = strSymbols
      ? castSlice(strSymbols, 1).join('')
      : string.slice(1);

    return chr[methodName]() + trailing;
  };
}

module.exports = createCaseFirst;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_createCaseFirst.js

var baseSlice = require('./_baseSlice');

/**
 * Casts `array` to a slice if it's needed.
 */
function castSlice(array, start, end) {
  var length = array.length;
  end = end === undefined ? length : end;

  return (!start && end >= length) ? array : baseSlice(array, start, end);
}

module.exports = castSlice;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_castSlice.js

var asciiToArray = require('./_asciiToArray'),
    hasUnicode = require('./_hasUnicode'),
    unicodeToArray = require('./_unicodeToArray');

/**
 * Converts an ASCII `string` to an array.
 */
function asciiToArray(string) {
  return hasUnicode(string)
    ? unicodeToArray(string)
    : asciiToArray(string);
}

module.exports = asciiToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_asciiToArray.js

/**
 * Converts an ASCII `string` to an array.
 */
function asciiToArray(string) {
  return string.split('');
}

module.exports = asciiToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_asciiToArray.js

/**
 * Creates a function like `_.lowerFirst`.
 */
function createCaseFirst(methodName) {
  return function(string) {
    string = toString(string);

    var strSymbols = hasUnicode(string)
      ? stringToArray(string)
      : undefined;

    var chr = strSymbols
      ? strSymbols[0]
      : string.charAt(0);

    var trailing = strSymbols
      ? castSlice(strSymbols, 1).join('')
      : string.slice(1);

    return chr[methodName]() + trailing;
  };
}

module.exports = createCaseFirst;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_createCaseFirst.js

var baseSlice = require('./_baseSlice');

/**
 * Casts `array` to a slice if it's needed.
 */
function castSlice(array, start, end) {
  var length = array.length;
  end = end === undefined ? length : end;

  return (!start && end >= length) ? array : baseSlice(array, start, end);
}

module.exports = castSlice;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_castSlice.js

var asciiToArray = require('./_asciiToArray'),
    hasUnicode = require('./_hasUnicode'),
    unicodeToArray = require('./_unicodeToArray');

/**
 * Converts an ASCII `string` to an array.
 */
function asciiToArray(string) {
  return hasUnicode(string)
    ? unicodeToArray(string)
    : asciiToArray(string);
}

module.exports = asciiToArray;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_asciiToArray.js

/**
 * Converts an ASCII `string` to an array.
 */
function asciiToArray(string) {
  return string.split('');
}

module.exports = asciiToArray;
implementation of `_isNative` without bad shim checks.

```javascript
* @returns {boolean} Returns `true` if `value` is a native function,
* `false` otherwise.

```javascript

```text

```

```javascript

```
```javascript
listCacheClear() {\n  \n  var this.__data__ = [];\n  this.size = 0;\n}\n
WEBPACK FOOTER:// node_modules/lodash/_listCacheClear.js

module id = 603\nmodule chunks = 0,"\n  var assocIndexOf = require('./_assocIndexOf');\n  */ ** Used for built-in method references. */

var arrayProto = Array.prototype;\n
/**\n * Removes `key` and its value from the list cache.\n * \n * @param {string} key The key of the value to remove.\n * @returns {boolean} Returns `true` if the entry was removed, else `false`.*/

function listCacheClear() \n  this.__data__ = [];\n  this.size = 0;\n  \n  return true;\n\n  var module.exports = listCacheDelete;\n
WEBPACK FOOTER:// node_modules/lodash/_listCacheDelete.js\n
module id = 604\nmodule chunks = 0,"\n
/**\n * Gets the list cache value for `key`.\n * \n * @param {string} key The key of the value to get.\n * @returns {Object} Returns the list cache instance.\n */

function listCacheGet(key) \n  this.__data__, \n  index = assocIndexOf(data, key);\n
return index < 0 ? undefined : data[index][1];\n
WEBPACK FOOTER:// node_modules/lodash/_listCacheGet.js

/**\n * Checks if a list cache value for `key` exists.\n * \n * @param {string} key The key of the entry to check.\n * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.\n */

function listCacheHas(key) \n  \n  module.exports = listCacheHas;\n
WEBPACK FOOTER:// node_modules/lodash/_listCacheHas.js\n
/**\n * Sets the list cache `key` to `value`.\n * \n * @param {string} key The key of the value to set.\n * @param {*} value The value to set.\n * @returns {Object} Returns the list cache instance.\n */

function listCacheSet(key, value) \n  this.__data__, \n  index = assocIndexOf(data, key);\n
if (index < 0) \n  ++this.size; \n  data.push([key, value]);\nelse \n  data[index][1] = value;\n
return this;

WEBPACK FOOTER:// node_modules/lodash/_listCacheSet.js

```
```javascript
function mapCacheSet(key, value) {
  var data = getMapData(this, key),
      size = data.size;

  data.set(key, value);
  this.size += data.size == size ? 0 : 1;
  return this;
}

module.exports = mapCacheSet;
```

```javascript
function createFind(findIndexFunc) {
  return function(collection, predicate, fromIndex) {
    var iterable = Object(collection);
    if (!isArrayLike(collection)) {
      var iteratee = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) { return iteratee(iterable[key], key, iterable); };
    }
    var index = findIndexFunc(collection, predicate, fromIndex);
  };
}

module.exports = createFind;
```

```javascript
function baseMatches(source) {
  var matchData = getMatchData(source);
  if (matchData.length == 1 && matchData[0][2]) {
    return matchesStrictComparable(matchData[0][0], matchData[0][1]);
  }
  return function(object) {
    return object === source || baseIsMatch(object, source, matchData);
  };
}

module.exports = baseMatches;
```

```javascript
function baseIsMatch(object, source, matchData, customizer) {
  var index = matchData.length,
      length = index,
      noCustomizer = !customizer;

  if (object == null) {
    return !length;
  }
  object = Object(object);
  while (index--) {
    var data = matchData[index];
    if ((noCustomizer && data[2]) ? data[1] !== object[data[0]] : !(data[0] in object)) {
      return false;
    }
  }
  while (++index < length) {
    data = matchData[index];
    var key = data[0],
        objValue = object[key],
        srcValue = data[1];

    if (noCustomizer && data[2]) {
      if (objValue === undefined && !(key in object)) {
        return false;
      }
    } else {
      var stack = new Stack;
      if (customizer) {
        var result = customizer(objValue, srcValue, key, object, source, stack);
      }
      if (!(result === undefined ? baseIsEqual(srcValue, objValue, COMPARE_PARTIAL_FLAG | COMPARE_UNORDERED_FLAG, customizer, stack) : result)) {
        return false;
      }
    }
  }
  return true;
}

module.exports = baseIsMatch;
```

```javascript
function stackClear() {
  this.__data__ = new ListCache;
  this.size = 0;
}

module.exports = stackClear;
```

```javascript
function stackDelete(key) {
  var data = this.__data__['delete'](key);

  this.size = data.size;
  return data;
}

module.exports = stackDelete;
```

```javascript
function stackPush(value) {
  var data = this.__data__,
      result = data['push'](value);

  this.size = data.size;
  return result;
}

module.exports = stackPush;
```

```javascript
function stackSet(key, value) {
  var data = this.__data__,
      result = data['set'](key, value);

  this.size = data.size;
  return result;
}

module.exports = stackSet;
```

```javascript
function stackGet(key) {
  var data = this.__data__;
  return data['get'](key);
}

module.exports = stackGet;
```
require('./_MapCache'),
    setCacheAdd = require('./_setCacheAdd'),
    setCacheHas = require('./_setCacheHas');

/**
 *
 * Creates an array cache object to store unique values.
 * @private
 * @constructor
 * @param {Array} [values] The values to cache.
 * @returns {Object} Returns the cache instance.
 */
function SetCache(values) {
  var index = -1,
      length = values == null ? 0 : values.length;

  this.__data__ = new MapCache;
  while (++index < length) {
    this.add(values[index]);
  }
}

// Add methods to `SetCache` prototype.
SetCache.prototype.push = setCacheAdd;
SetCache.prototype.has = setCacheHas;

module.exports = SetCache;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_SetCache.js
// module id = 622
// module chunks = 0
var HASH_UNDEFINED = '__lodash_hash_undefined__';

/**
 * Adds `value` to the array cache.
 *
 * @private
 * @name add
 * @memberOf SetCache
 * @alias push
 * @param {*} value The value to cache.
 * @returns {Object} Returns the cache instance.
 */
function setCacheAdd(value) {
  this.__data__.set(value, HASH_UNDEFINED);
  return this;
}

module.exports = setCacheAdd;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_setCacheAdd.js
// module id = 623
// module chunks = 0
/**
 * Checks if `value` is in the array cache.
 *
 * @private
 * @name has
 * @memberOf SetCache
 * @returns {number} Returns `true` if `value` is found, else `false`.
 */
function setCacheHas(value) {
  return this.__data__.has(value);
}

module.exports = setCacheHas;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_setCacheHas.js
// module id = 624
// module chunks = 0
*/

var Symbol = require('./_Symbol'),
    Uint8Array = require('./_Uint8Array'),
    eq = require('./eq'),
    equalArrays = require('./_equalArrays'),
    mapToArray = require('./_mapToArray'),
    setToArray = require('./_setToArray');

/**
 * A specialized version of `baseIsEqualDeep` for comparing objects of
 * the same `toStringTag`.
 *
 * **Note:** This function only supports comparing values with tags of
 * `Boolean`, `Date`, `Error`, `Number`, `RegExp`, or `String`.
 *
 * @private
 * @param {Object} object The object to compare.
 * @param {Object} other The other object to compare.
 * @param {string} tag The `toStringTag` of the objects to compare.
 * @param {number} bitmask The bitmask flags.
 * @param {Function} customizer The function to customize comparisons.
 * @param {Function} equalFunc The function to determine equivalents of values.
 * @returns {boolean} Returns `true` if the objects are equivalent, else `false`.
 */
function equalByTag(object, other, tag, bitmask, customizer, equalFunc, stack) {

  switch (tag) {
    case dataViewTag:
      if ((object.byteLength != other.byteLength) ||
          (object.byteOffset != other.byteOffset)) {
        return false;
      }
      object = object.buffer;
      other = other.buffer;

    case arrayBufferTag:
      if ((object.byteLength != other.byteLength) ||
          !equalFunc(new Uint8Array(object), new Uint8Array(other))) {
        return false;
      }
      return true;

    case boolTag:
    case dateTag:
    case numberTag:
      // Coerce booleans to `1` or `0` and dates to milliseconds.
      // Invalid dates are coerced to `NaN`.
      return eq(+object, +other);

    case errorTag:
      return object.name == other.name && object.message == other.message;

    case regexpTag:
    case stringTag:
      // Coerce regexes to strings and treat strings, primitives and objects
      // as equal. See http://www.ecma-international.org/ecma-262/7.0/#sec-regexp.prototype.toString
      // for more details.
      return object == (other + '');

    case mapTag:
      var convert = mapToArray;

    case setTag:
      var isPartial =

Open Source Used In SDWan 20.6.1 21450
bitmask & COMPARE_PARTIAL_FLAG; convert || (convert = setToArray);

if (object.size != other.size && !isPartial) {
  if (stacked !== other) {
    return false;
  }
}

if (stack !== other) {
  var stacked = stack[delete](object);
  if (stacked === other) {
    return false;
  }
}

var result = equalArrays(convert(object), convert(other), bitmask, customizer, equalFunc, stack);

if (object.size != other.size && !isPartial) {
  return false;
}

if (result) {
  var stacked = stack.get(object);
  if (stacked === other) {
    return true;
  }
}

// Recursively compare objects (susceptible to call stack limits).

var result = equalObjects(convert(object), convert(other), bitmask, customizer, equalFunc, stack);

if (object.size != other.size && !isPartial) {
  return false;
}

if (result) {
  var stacked = stack.get(object);
  if (stacked === other) {
    return true;
  }
}

// Assume cyclic values are equal.

var result = equalMaps(convert(object), convert(other), bitmask, customizer, equalFunc, stack);

if (object.size != other.size && !isPartial) {
  return false;
}

if (result) {
  var stacked = stack.get(object);
  if (stacked === other) {
    return true;
  }
}

var result = equalSets(convert(object), convert(other), bitmask, customizer, equalFunc, stack);

if (object.size != other.size && !isPartial) {
  return false;
}

if (result) {
  var stacked = stack.get(object);
  if (stacked === other) {
    return true;
  }
}

var result = equalValues(convert(object), convert(other), bitmask, customizer, equalFunc, stack);

if (object.size != other.size && !isPartial) {
  return false;
}

if (result) {
  var stacked = stack.get(object);
  if (stacked === other) {
    return true;
  }
}

var result = !isPartial;

if (result) {
  var stacked = stack.get(object);
  if (stacked === other) {
    return true;
  }
}

var result = !!isPartial;

if (result) {
  var stacked = stack.get(object);
  if (stacked === other) {
    return true;
  }
}

var result = !isPartial;

if (result) {
  var stacked = stack.get(object);
  if (stacked === other) {
    return true;
  }
}

Returns the new filtered array.

```javascript
function arrayFilter(array, predicate) {
  var index = -1,
      length = array == null ? 0 : array.length,
      result = [],
      resIndex = 0,
      result = Array(n);

  while (++index < length) {
    var value = array[index];
    if (predicate(value, index, array)) {
      result[resIndex++] = value;
    }
  }
  return result;
}

module.exports = arrayFilter;
```

```javascript
module.exports = baseTimes;
```

```javascript
var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/** `Object#toString` result references. */
var argsTag = '[object Arguments]',
    arrayTag = '[object Array]',
    boolTag = '[object Boolean]',
    dateTag = '[object Date]',
    errorTag = '[object Error]',
    funcTag = '[object Function]',
    mapTag = '[object Map]',
    numberTag = '[object Number]',
    objectTag = '[object Object]',
    regexpTag = '[object RegExp]',
    setTag = '[object Set]',
    stringTag = '[object String]',
    weakMapTag = '[object WeakMap]';

```javascript
var typedArrayTags = {};
typedArrayTags[float32Tag] = typedArrayTags[float64Tag] =
typedArrayTags[int8Tag] =
typedArrayTags[int16Tag] =
typedArrayTags[int32Tag] = typedArrayTags[uint8Tag] =
typedArrayTags[uint8ClampedTag] = typedArrayTags[uint16Tag] =
typedArrayTags[uint32Tag] =

```javascript
var baseGetTag = require('./_baseGetTag'),
    isLength = require('./isLength'),
    isObjectLike = require('./isObjectLike');

/**
 * The base implementation of `_.isTypedArray` without Node.js optimizations.
 */
function baseIsTypedArray(value) {
  return isObjectLike(value) &&
    isLength(value.length) &&
    !!typedArrayTags[baseGetTag(value)];
}

module.exports = baseIsTypedArray;
```

```javascript
var isPrototype = require('./_isPrototype'),
    nativeKeys = require('./_nativeKeys');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * The base implementation of `_.keys` which doesn't treat sparse arrays as dense.
 */
function keys(object) {
  var keys = objectProto.keys;

  if (typeof keys == 'function' && object != null)
    return keys.call(object);

  var result = [];

  // Avoid non-dom objects with non-writable enumerable properties.
  var isProto = !object || isPrototype(object);

  for (var key in object)
    if (!hasOwnProperty.call(object, key)
      && isProto || (key != 'constructor🍤'))
      result.push(key);

  return result;
}
```

```javascript
var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/**
 * The base implementation of `_.toStringTag` without Node.js optimizations.
 */
function baseGetTag(value) {
  return isObjectLike(value) &&
    baseGetTag(value) || isObjectLike(value);
}

module.exports = baseGetTag;
```

```javascript
var isPrototype = require('./_isPrototype'),
    nativeKeys = require('./_nativeKeys');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * The base implementation of `_.keys` which doesn't treat sparse arrays as dense.
 */
function keys(object) {
  var keys = objectProto.keys;

  if (typeof keys == 'function' && object != null)
    return keys.call(object);

  var result = [];

  // Avoid non-dom objects with non-writable enumerable properties.
  var isProto = !object || isPrototype(object);

  for (var key in object)
    if (!hasOwnProperty.call(object, key)
      && isProto || (key != 'constructor Truman'))
      result.push(key);

  return result;
}
```

```javascript
module.exports = keys;
```

```javascript
var isPrototype = require('./_isPrototype'),
    nativeKeys = require('./_nativeKeys');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * The base implementation of `_.keys` which doesn't treat sparse arrays as dense.
 */
function keys(object) {
  var keys = objectProto.keys;

  if (typeof keys == 'function' && object != null)
    return keys.call(object);

  var result = [];

  // Avoid non-dom objects with non-writable enumerable properties.
  var isProto = !object || isPrototype(object);

  for (var key in object)
    if (!hasOwnProperty.call(object, key)
      && isProto || (key != 'constructor Truman'))
      result.push(key);

  return result;
}
```

```javascript
module.exports = keys;
```

```javascript
var isPrototype = require('./_isPrototype'),
    nativeKeys = require('./_nativeKeys');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * The base implementation of `_.keys` which doesn't treat sparse arrays as dense.
 */
function keys(object) {
  var keys = objectProto.keys;

  if (typeof keys == 'function' && object != null)
    return keys.call(object);

  var result = [];

  // Avoid non-dom objects with non-writable enumerable properties.
  var isProto = !object || isPrototype(object);

  for (var key in object)
    if (!hasOwnProperty.call(object, key)
      && isProto || (key != 'constructor Truman'))
      result.push(key);

  return result;
}
```

```javascript
module.exports = keys;
```

```javascript
var isPrototype = require('./_isPrototype'),
    nativeKeys = require('./_nativeKeys');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * The base implementation of `_.keys` which doesn't treat sparse arrays as dense.
 */
function keys(object) {
  var keys = objectProto.keys;

  if (typeof keys == 'function' && object != null)
    return keys.call(object);

  var result = [];

  // Avoid non-dom objects with non-writable enumerable properties.
  var isProto = !object || isPrototype(object);

  for (var key in object)
    if (!hasOwnProperty.call(object, key)
      && isProto || (key != 'constructor Truman'))
      result.push(key);

  return result;
}
```

```javascript
module.exports = keys;
```
Returns the array of property names.

```javascript
function baseKeys(object) {
  if (!isPrototype(object)) {
    return nativeKeys(object);
  }
  var result = [];
  for (var key in Object(object)) {
    if (hasOwnProperty.call(object, key) &
    & key != 'constructor') {
      result.push(key);
    }
  }
  return result;
}

module.exports = baseKeys;
```

Built-in method references for those with the same name as other 'lodash' methods.

```javascript
var nativeKeys = overArg(Object.keys, Object);

module.exports = nativeKeys;
```

 Built-in method references that are verified to be native.

```javascript
var DataView = getNative(root, 'DataView');

module.exports = DataView;
```

 Built-in method references that are verified to be native.

```javascript
var WeakMap = getNative(root, 'WeakMap');

module.exports = WeakMap;
```

 Built-in method references that are verified to be native.

```javascript
var keys = require('./keys');

/**
 * Gets the property names, values, and compare flags of `object`.
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the match data of `object`.

 function getMatchData(object) {
   var result = keys(object),
       length = result.length;

   while (length--){
     var key = result[length],
         value = object[key];

     result[length] = [key, value,
     isStrictComparable(value)];
   }
   return result;
}

module.exports = getMatchData;
```

 Built-in method references that are verified to be native.

```javascript
var getMatchData = overArg(Object.keys, Object);

module.exports = getMatchData;
```

 Built-in method references that are verified to be native.

```javascript
var getMatchData = overArg(Object.keys, Object);

module.exports = getMatchData;
```
false },\n * { 'user': 'fred', 'active': false },\n * { 'user': 'pebbles', 'active': true }\n * ];\n *\n * _.findIndex(users,
function(o) { return o.user == 'barney'; });\n * // => 0\n *\n * // The `_.matches` iteratee shorthand.\n *
_.findIndex(users, { 'user': 'fred', 'active': false });\n * // => 1\n *\n * // The `_.matchesProperty` iteratee shorthand.\n
* _.findIndex(users, ['active', false]);\n * // => 0\n *\n * // The `_.property` iteratee shorthand.\n * _.findIndex(users,
'active');\n * // => 2\n */\nfunction findIndex(array, predicate, fromIndex) {\n var length = array == null ? 0 :
array.length;\n if (!length) {\n return -1;\n }\n var index = fromIndex == null ? 0 : toInteger(fromIndex);\n if
(index < 0) {\n index = nativeMax(length + index, 0);\n }\n return baseFindIndex(array, baseIteratee(predicate,
3), index);\n}\n\nmodule.exports = findIndex;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/lodash/findIndex.js\n// module id = 650\n// module chunks = 0","/**\n * The base implementation
of `_.findIndex` and `_.findLastIndex` without\n * support for iteratee shorthands.\n *\n * @private\n * @param
{Array} array The array to inspect.\n * @param {Function} predicate The function invoked per iteration.\n *
@param {number} fromIndex The index to search from.\n * @param {boolean} [fromRight] Specify iterating from
right to left.\n * @returns {number} Returns the index of the matched value, else `-1`.\n */\nfunction
baseFindIndex(array, predicate, fromIndex, fromRight) {\n var length = array.length,\n
index = fromIndex +
(fromRight ? 1 : -1);\n\n while ((fromRight ? index-- : ++index < length)) {\n if (predicate(array[index], index,
array)) {\n
return index;\n }\n }\n return -1;\n}\n\nmodule.exports = baseFindIndex;\n\n\n\n//////////////////\n//
WEBPACK FOOTER\n// ./node_modules/lodash/_baseFindIndex.js\n// module id = 651\n// module chunks =
0","var toNumber = require('./toNumber');\n\n/** Used as references for various `Number` constants. */\nvar
INFINITY = 1 / 0,\n MAX_INTEGER = 1.7976931348623157e+308;\n\n/**\n * Converts `value` to a finite
number.\n *\n * @static\n * @memberOf _\n * @since 4.12.0\n * @category Lang\n * @param {*} value The
value to convert.\n * @returns {number} Returns the converted number.\n * @example\n *\n * _.toFinite(3.2);\n * //
=> 3.2\n *\n * _.toFinite(Number.MIN_VALUE);\n * // => 5e-324\n *\n * _.toFinite(Infinity);\n * // =>
1.7976931348623157e+308\n *\n * _.toFinite('3.2');\n * // => 3.2\n */\nfunction toFinite(value) {\n if (!value) {\n
return value === 0 ? value : 0;\n }\n value = toNumber(value);\n if (value === INFINITY || value === INFINITY) {\n var sign = (value < 0 ? -1 : 1);\n return sign * MAX_INTEGER;\n }\n return value === value ?
value : 0;\n}\n\nmodule.exports = toFinite;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/lodash/toFinite.js\n// module id = 652\n// module chunks = 0","var arraySome =
require('./_arraySome'),\n baseIteratee = require('./_baseIteratee'),\n baseSome = require('./_baseSome'),\n
isArray = require('./isArray'),\n isIterateeCall = require('./_isIterateeCall');\n\n/**\n * Checks if `predicate` returns
truthy for **any** element of `collection`.\n * Iteration is stopped once `predicate` returns truthy. The predicate is\n
* invoked with three arguments: (value, index|key, collection).\n *\n * @static\n * @memberOf _\n * @since
0.1.0\n * @category Collection\n * @param {Array|Object} collection The collection to iterate over.\n * @param
{Function} [predicate=_.identity] The function invoked per iteration.\n * @param- {Object} [guard] Enables use as
an iteratee for methods like `_.map`.\n * @returns {boolean} Returns `true` if any element passes the predicate
check,\n * else `false`.\n * @example\n *\n * _.some([null, 0, 'yes', false], Boolean);\n * // => true\n *\n * var users
= [\n * { 'user': 'barney', 'active': true },\n * { 'user': 'fred', 'active': false }\n * ];\n *\n * // The `_.matches` iteratee
shorthand.\n * _.some(users, { 'user': 'barney', 'active': false });\n * // => false\n *\n * // The `_.matchesProperty`
iteratee shorthand.\n * _.some(users, ['active', false]);\n * // => true\n *\n * // The `_.property` iteratee shorthand.\n *
_.some(users, 'active');\n * // => true\n */\nfunction some(collection, predicate, guard) {\n var func =
isArray(collection) ? arraySome : baseSome;\n if (guard && isIterateeCall(collection, predicate, guard)) {\n
predicate = undefined;\n }\n return func(collection, baseIteratee(predicate, 3));\n}\n\nmodule.exports =
some;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/lodash/some.js\n// module id = 653\n//
module chunks = 0","var baseEach = require('./_baseEach');\n\n/**\n * The base implementation of `_.some`
without support for iteratee shorthands.\n *\n * @private\n * @param {Array|Object} collection The collection to
iterate over.\n * @param {Function} predicate The function invoked per iteration.\n * @returns {boolean} Returns
`true` if any element passes the predicate check,\n * else `false`.\n */\nfunction baseSome(collection, predicate) {\n
var result;\n\n baseEach(collection, function(value, index, collection) {\n result = predicate(value, index,
collection);\n return !result;\n });\n return !!result;\n}\n\nmodule.exports = baseSome;\n\n\n\n//////////////////\n//

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```javascript
var Stream = require('stream').Stream;

var DEFAULT_INDENT = '    ';

function createBaseEach(eachFunc, fromRight) {
  return function(collection, iteratee) {
    if (collection == null) {
      return collection;
    }
    if (!isArrayLike(collection)) {
      return eachFunc(collection, iteratee);
    }
    var length = collection.length,
        iterable = Object(collection);

    while ((fromRight ? index-- : ++index < length)) {
      if (iteratee(iterable[index], index, iterable) === false) {
        break;
      }
    }
    return object;
  }
}

function baseForOwn(object, iteratee) {
  return object && baseFor(object, iteratee,
```

```javascript
var Stream = require('stream').Stream;

var DEFAULT_INDENT = '    ';

function createBaseEach(eachFunc, fromRight) {
  return function(collection, iteratee) {
    if (collection == null) {
      return collection;
    }
    if (!isArrayLike(collection)) {
      return eachFunc(collection, iteratee);
    }
    var length = collection.length,
        iterable = Object(collection);

    while ((fromRight ? index-- : ++index < length)) {
      if (iteratee(iterable[index], index, iterable) === false) {
        break;
      }
    }
    return object;
  }
}

function baseForOwn(object, iteratee) {
  return object && baseFor(object, iteratee,
```
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The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

module.exports = Stream;

var EE = require('events').EventEmitter;
var inherits = require('inherits').Stream.Readable = require('readable-stream/readable.js');
Stream.Writable = require('readable-stream/writable.js');
Stream.Duplex = require('readable-stream/duplex.js');
Stream.Transform = require('readable-stream/transform.js');
Stream.PassThrough = require('readable-stream/passthrough.js');
Backwards-compat with node 0.4. Stream = Stream;

// old-style streams. Note that the pipe method (the only relevant part of this class) is overwritten in the Readable class.

function Stream() {
  EE.call(this);
}

Stream.prototype.pipe = function(dest, options) {
  var source = this;

  function ondata(chunk) {
    if (dest.writable) {
      if (false === dest.write(chunk) && source.pause) {
        source.pause();
      }
    }
  }

  source.on('data', ondata);

  function ondrain() {
    if (source.readable && source.resume) {
      source.resume();
    }
  }

  dest.on('drain', ondrain);

  // If the 'end' option is not supplied, dest.end() will be called when source gets the 'end' or 'close' events. Only dest.end() once.
  if (!dest._isStdio && (!options || options.end !== false)) {
    source.on('end', function onend() {
      if (didOnEnd) return;
      didOnEnd = true;

      dest.on('end', onend);
      dest.on('drain', ondrain);
    });

    if (typeof dest.destroy === 'function') dest.destroy();
  }

  // don't leave dangling pipes when there are errors.
  function onerror(er) {
    cleanup();
    if (EE.listenerCount(this, 'error') === 0) {
      throw er; // Unhandled stream error in pipe.
    }
  }

  source.on('error', onerror);
  dest.on('error', onerror);

  // remove all the event listeners that were added.
  function cleanup() {
    source.removeListener('data', ondata);
    dest.removeListener('drain', ondrain);
    dest.removeListener('end', onend);
    dest.removeListener('error', onerror);
    source.removeListener('error', onerror);
    dest.removeListener('close', onend);
    dest.removeListener('close', onerror);
    source.removeListener('end', onend);
    source.removeListener('drain', ondrain);
    source.removeListener('error', onerror);
    source.removeListener('close', onend);
    source.removeListener('error', onerror);
  }

  // Allow for unix-like usage: A.pipe(B).pipe(C)
  function CallCheck(instance, Constructor) {
    if (!instance) return new Constructor();
    return instance;
  }

  function BufferList() {
    _classCallCheck(this, BufferList);

    this.head = null;
    this.tail = null;
    this.length = 0;
  }

  BufferList.prototype.push = function push(v) {
    var entry = { data: v, next: null };
    if (this.length > 0) this.tail.next = entry;
    this.tail = entry;
    this.tail += this.length;
    this.length += 0;
    this.tail += this.length;
    this.tail += this.length;
    this.tail += this.length;
    this.tail += this.length;
    this.tail += this.length;
    this.tail += this.length;
    this.tail += this.length;
    this.tail += this.length;
    return ret;
  }

  BufferList.prototype.clear = function clear() {
    this.head = this.tail = null;
    this.length = 0;
  }

  BufferList.prototype.join = function join(s) {
    if (this.length === 0) return null;
    var p = this.head;
    var ret = s +
fired asynchronously once it is inserted

var script = doc.createElement("script");

html.removeChild(script);

function installSetTimeoutImplementation() {
    registerImmediate = function(handle) {
        setTimeout(runIfPresent, 0, handle);
    };

    // If supported, we should attach to the prototype of global, since that is where setImmediate et al. live.
    var attachTo = Object.getPrototypeOf &
    Object.getPrototypeOf(global);
    attachTo = attachTo &
    attachTo.setImmediate ? attachTo : global;

    // Don't get fooled by e.g. browserify environments.
    if ({}.toString.call(global.process) === "[object process]") {
        // For Node.js before 0.9
        installNextTickImplementation();

    } else if (canUsePostMessage()) {
        // For non-JE10 modern browsers
        installPostMessageImplementation();

    } else if (global.MessageChannel)

    // For web workers, where supported
    installMessageChannelImplementation();

    attachTo.setImmediate = setImmediate;
    attachTo.clearImmediate = clearImmediate;
}(typeof self === "undefined" ? typeof global === "undefined" ?

```javascript
/*! Module exports. */

module.exports = deprecate;

/**
 * Mark that a method should not be used.
 * Returns a modified function which warns once by default.
 * @param {Function} fn - the function to deprecate
 * @param {String} msg - the string to print to the console when `fn` is invoked
 * @returns {Function} a new "deprecated" version of `fn`
 * @api public
 */

function deprecate (fn, msg) {
    if (config('noDeprecation')) {
        return fn;
    }

    var warned = false;
    function deprecated() {
        if (!warned) {
            if (config('throwDeprecation')) {
                throw new Error(msg);
            } else if (config('traceDeprecation')) {
                console.trace(msg);
            } else {
                console.warn(msg);
            }
            warned = true;
        }
        return fn.apply(this, arguments);
    }

    return deprecated;
}

/**
 * Checks `localStorage` for boolean values for the given `name`.
 * @param {String} name
 * @returns {Boolean}
 * @api private
 */

function config (name) {
    // accessing global.localStorage can trigger a DOMException in sandboxed iframes
    try {
        if (!global.localStorage) return false;
    } catch (_){
        return false;
    }
    var val = global.localStorage[name];
    if (null == val) return false;
    return String(val).toLowerCase() === 'true';
}

```

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FOOTER

// node_modules/memoizee/plain.js
var callable = require("./valid-callable")
  , value = require("./valid-value")
  , bind = Function.prototype.bind;

module.exports = function (method, defVal) {
	return function (obj, cb /*, thisArg, compareFn*/) {
		var list, thisArg = arguments[2], compareFn = arguments[3];
		obj = Object(value(obj));
		if (compareFn) {
			list.sort(typeof compareFn === "function" ? bind.call(compareFn, obj) : undefined);
		}
		if (typeof method !== "function") method = list[method]
		return call.call(method, list, function (key, index) {
			return defVal;
			cb(key, obj[key], key, obj, index);
		});
	};

// WEBPACK FOOTER

FOOTER
cache[id];
defineLength(function (arg) {

    var id, args = arguments;
    if (resolve) args = resolve(args);
    id = get(args);
    if (id === null) return;
    conf.delete(id);
}, memLength);

setDel = defineLength(function (arg) {

    var id, args = arguments;
    if (resolve) args = resolve(args);
    id = get(args);
    if (id === null) return;
    conf.get(id, result);
}, memLength);

setHas = defineLength(function (arg) {

    var id, args = arguments;
    if (resolve) args = resolve(args);
    id = get(args);
    if (id === null) return;
    conf.set(id, result);
});

getDel = defineLength(function (arg) {

    var id, args = arguments;
    if (resolve) args = resolve(args);
    id = get(args);
    if (id === null) return;
    conf.delete(id);
});

getHas = defineLength(function (arg) {

    var id, args = arguments;
    if (resolve) args = resolve(args);
    id = get(args);
    if (id === null) return;
    conf.set(id, result);
});

getDel = defineLength(function (arg) {

    var id, args = arguments;
    if (resolve) args = resolve(args);
    id = get(args);
    if (id === null) return;
    conf.delete(id, result);
});

getHas = defineLength(function (arg) {

    var id, args = arguments;
    if (resolve) args = resolve(args);
    id = get(args);
    if (id === null) return;
    conf.set(id, result);
});
// razdwrzy

module.exports = function () {
    if (typeof str.contains !== 'function') return false;
    return (str.contains('dwa') === true) && (str.contains('foo') === false);
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/es5-ext/string/#/contains/is-implemented.js
// module id = 688
// module chunks = 0

var indexOf = String.prototype.indexOf;

module.exports = function (searchString/*, position*/) {
    return indexOf.call(this, searchString, arguments[1]) > -1;
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/es5-ext/string/#/contains/shim.js
// module id = 689
// module chunks = 0


//////////////////
// WEBPACK FOOTER
// ./node_modules/event-emitter/index.js
// module id = 690
// module chunks = 0

var from = require('./from')
  , isArray = Array.isArray;

module.exports = function (arrayLike) {
    return isArray(arrayLike) ? arrayLike : from(arrayLike);
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/array/to-array.js
// module id = 692
// module chunks = 0

module.exports = function () {
    var from = Array.from, arr, result;
    if (typeof from !== "function") return false;
    arr = ["raz", "dwa"];
    result = from(arr);
    return Boolean(result && (result !== arr) &&

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Open Source Used In SDWan 20.6.1

```

(function (currentCallback) return;

		// Unresolved
		if (waiting[id]) {
			if (typeof waiting[id] === "function")
				var result = apply.call(cb, this, args);
				if (result instanceof Error)
					throw result;
				apply.call(cb, this, args);
				return;
		} else {
				cb = currentCallback;
				currentContext = currentArgs;
				result = apply.call(callback, this, args);
				if (result instanceof Error)
					throw result;
				base.call.call(this, args);
				return;
		}

		// Resolved, assure next tick invocation
		cb = currentCallback;
		context = currentContext;
		args = currentArgs;
		currentCallback = currentContext = currentArgs = null;

		// After not from cache call
		conf.on("set", function (id) {
			var result;
			forget();
			update(id);
			result = apply.call(callback, this, args);
			for (var key in result) {
				result[key] = result[key] // exponential backoff
			}
			return result;
		});

		// On delete
		conf.on("delete", function (id) {
			conf.delete(id);
			forget(id);
			result = apply.call(callback, this, args);
			for (var key in result) {
				result[key] = result[key] // exponential backoff
			}
			return result;
		});

		// On clear
		conf.on("clear", function () {
			var oldCache = cache;
			cache = create(null);
			conf.emit("clearasync", objectMap(oldCache, function (data) {
				return slice.call(data.args, 1);
			})
		);
		});

		// After not from cache call
		conf.on("set", function (id) {
			var result;
			forget();
			update(id);
			result = apply.call(callback, this, args);
			for (var key in result) {
				result[key] = result[key] // exponential backoff
			}
			return result;
		});

```

/\node_modules/memoizee/ext/async.js

module.id = 712

/* eslint max-statements: 0 */

```

// Support for functions returning promise

```

```

```

```

```

/* eslint max-statements: 0 */

```

```

///
// WEBPACK FOOTER
// ./node_modules/memoizee/ext/max.js
// module id = 723
// module chunks = 0
"use strict";

var toPosInt = require('es5-ext/number/to-pos-integer')

  , create = Object.create, hasOwnProperty = Object.prototype.hasOwnProperty;

module.exports = function (limit) {
	var size = 0, base = 1, queue = create(null), map = create(null), index = 0, del;
	limit = toPosInt(limit);
	return {
		hit: function (id) {
		var oldIndex = map[id], nuIndex = ++index;
		queue[nuIndex] = id;
		map[id] = nuIndex;
		if (!oldIndex) {
			++size;
			if (size <= limit) return;
			id = queue[base];
			del(id);
		}
		delete queue[oldIndex];
		delete map[id];
		--size;
		if (base !== oldIndex) return;
		if (!size) {
			index = 0;
			base = 1;
			queue = create(null);
			map = create(null);
		}
		}
		delete: del = function (id) {
			var oldIndex = map[id];
			if (!oldIndex) return;
			delete queue[oldIndex];
			delete map[id];
			--size;
			if (base !== oldIndex) return;
			if (!size) {
				index = 0;
				base = 1;
				queue = create(null);
				map = create(null);
		}
			}
			}
		del = function (id) {
			var oldIndex = map[id];
			if (!oldIndex) return;
			delete queue[oldIndex];
			delete map[id];
			--size;
			if (base !== oldIndex) return;
			if (!size) {
				index = 0;
				base = 1;
				queue = create(null);
				map = create(null);
		}
			}
			}
		del = function (id) {
			var oldIndex = map[id];
			if (!oldIndex) return;
			delete queue[oldIndex];
			delete map[id];
			--size;
			if (base !== oldIndex) return;
			if (!size) {
				index = 0;
				base = 1;
				queue = create(null);
				map = create(null);
		}
			}
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			}
			}
```
character and is in the range \[0-9\] and the first character is a \`\-\` (U+002D), \[\] + codeUnit.toString(16) + `continue; \n``\nIf the character is the first character and is a \`\-\` (U+002D), and there is no second character, \[\] += 0 &\& codeUnit == 0x002D) {
``\n  result += `\n``\nstring.charAt(index); \n``\n``\n  index = 1 &\& codeUnit >= 0x0030 &\& codeUnit <= 0x0039
``\n``\n  firstCodeUnit == 0x002D
``\n``\n  result += `\n``\n``\n  // https://drafts.csswg.org/cssom/#escape-a-character-as-code-point
``\n``\n  result += `\n``\n``\n  // If the character is not handled by one of the above rules and is
``\n``\n  // greater than or equal to U+0080, is \`\-\` (U+002D) or \`\_\` (U+005F), or
``\n``\n  // is in one of the ranges \[0-9\] (U+0030 to U+0039), \[A-Z\] (U+0041 to
``\n``\n  // U+005A), or \[a-z\] (U+0061 to U+007A), [...]
``\n``\n  if (codeUnit >= 0x0080 || codeUnit == 0x002D || codeUnit == 0x005F || codeUnit >= 0x0030 &\& codeUnit <= 0x0039 || codeUnit >= 0x0041 &\& codeUnit <= 0x005A || codeUnit >= 0x0061 &\& codeUnit <= 0x007A) {
``\n``\n    // the character itself
``\n``\n    result += string.charAt(index);
``\n``\n    continue;
``\n``\n``\n``\n// Otherwise, the escaped character."
function reduce(collection, iteratee, accumulator) {
  var func = isArray(collection) ? arrayReduce :
      baseReduce, initAccum = arguments.length < 3;

  return func(collection, baseIteratee(iteratee, 4),
      accumulator, initAccum);
}

module.exports = reduce;


-----------------------------
// WEBPACK FOOTER
// ./node_modules/lodash/reduce.js
// module id = 729
// module chunks = 0

```javascript
function baseReduce(collection, iteratee, accumulator, initAccum, eachFunc) {

  eachFunc(collection, function(value, index, collection) {
      accumulator = initAccum
        ? (initAccum = false,
           value)
        : iteratee(accumulator, value, index, collection);
  });
  return accumulator;
}

module.exports = baseReduce;

```
(isNode) {\n  notify = function () {\n    process.nextTick(flush);\n  } \n} // browsers with MutationObserver, except iOS Safari - https://github.com/zloirock/core-js/issues/339 \n} else if (Observer && !(global.navigator && global.navigator.standalone)) {\n  var toggle = true; \n  var node = document.createTextNode("\n  ); \n} // environments with maybe non-completely correct, but existent Promise\n} else if (Promise & Promise.resolve) {\n  var promise = Promise.resolve(); \n  notify = function () {\n    var\n  promise.then(flush);\n  } \n} // for other environments - macrotask based on: \n} - setTimeout\n} \n} else {\n  notify = function () {\n    // strange IE + webpack dev server bug - use .call(global)\n    macrotask.call(global, flush);\n  } \n} \n\nreturn function (fn) {\n  var task = { fn: fn, next: undefined } \n  if (last) last.next = task; \n  if (!head) {\n    head = task; \n    notify(); \n  } last = task; \n};\n
\n\n\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\n
generated code) as either
// module.exports (if we're in a module) or a new, empty object.

runtime = global.regeneratorRuntime = inModule ? module.exports : {};

function wrap(innerFn, outerFn, self, tryLocsList) {
  if (outerFn provided and outerFn.prototype is a Generator, then outerFn.prototype instanceof Generator
  return generator;}

runtime.wrap = wrap; // Try/catch helper to minimize deoptimizations. Returns a completion
 // record like context.tryEntries[i].completion. This interface couldn’t have been (and was previously) designed to take a closure to be
 // invoked without arguments, but in all the cases we care about we already have an existing method we want to call, so there's no need
 // to create a new function object. We can even get away with assuming
 // the method takes exactly one argument, since that happens to be true
 // in every case, so we don't have to touch the argument object. The
 // only additional allocation required is the completion record, which
 // has a stable shape and so hopefully should be cheap to allocate.

function tryCatch(fn, obj, arg) {
  try {
    return { type: "normal", arg: fn.call(obj, arg) };
  } catch (err) {
    return { type: "throw", arg: err };
  }
}

GenStateSuspendedStart = "suspendedStart";
GenStateSuspendedYield = "suspendedYield";
GenStateExecuting = "executing";
GenStateCompleted = "completed";
ContinueSentinel = {};
GeneratorFunction = function() {}
GeneratorFunctionPrototype = function GeneratorFunctionPrototype() {};

function invoke(method, arg, resolve, reject) {
  var record = tryCatch(generator[method], generator, arg);
  if (record.type === "throw") {
    reject(record.arg);
  } else {
    var result = record.arg;
    var value = result.value;
    if (value &&
      typeof value === "object" &&
      hasOwn.call(value, "__await")) {
      return Promise.resolve(value.__await).then(function(value) {
        invoke("next", value,

fromDecimalCode(c) {\n if ((0x30/* 0 */ <= c) && (c <= 0x39/* 9 */)) {\n return c - 0x30;\n }\n\n return 1;\n}\n\nfunction simpleEscapeSequence(c) {\n /* eslint-disable indent */\n return (c === 0x30/* 0 */) ? '\\x00' :\n
(c === 0x61/* a */) ? '\\x07' :\n
(c === 0x62/* b */) ? '\\x08' :\n
(c === 0x74/* t */) ? '\\x09' :\n
(c
=== 0x09/* Tab */) ? '\\x09' :\n
(c === 0x6E/* n */) ? '\\x0A' :\n
(c === 0x76/* v */) ? '\\x0B' :\n
(c
=== 0x66/* f */) ? '\\x0C' :\n
(c === 0x72/* r */) ? '\\x0D' :\n
(c === 0x65/* e */) ? '\\x1B' :\n
(c ===
0x20/* Space */) ? ' ' :\n
(c === 0x22/* \" */) ? '\\x22' :\n
(c === 0x2F/* / */) ? '/' :\n
(c === 0x5C/* \\
*/) ? '\\x5C' :\n
(c === 0x4E/* N */) ? '\\x85' :\n
(c === 0x5F/* _ */) ? '\\xA0' :\n
(c === 0x4C/* L */) ?
'\\u2028' :\n
(c === 0x50/* P */) ? '\\u2029' : '';\n}\n\nfunction charFromCodepoint(c) {\n if (c <= 0xFFFF) {\n
return String.fromCharCode(c);\n }\n // Encode UTF-16 surrogate pair\n // https://en.wikipedia.org/wiki/UTF16#Code_points_U.2B010000_to_U.2B10FFFF\n return String.fromCharCode(\n ((c - 0x010000) >> 10) +
0xD800,\n ((c - 0x010000) & 0x03FF) + 0xDC00\n );\n}\n\nvar simpleEscapeCheck = new Array(256); //
integer, for fast access\nvar simpleEscapeMap = new Array(256);\nfor (var i = 0; i < 256; i++) {\n
simpleEscapeCheck[i] = simpleEscapeSequence(i) ? 1 : 0;\n simpleEscapeMap[i] =
simpleEscapeSequence(i);\n}\n\n\nfunction State(input, options) {\n this.input = input;\n\n this.filename =
options['filename'] || null;\n this.schema = options['schema'] || DEFAULT_FULL_SCHEMA;\n
this.onWarning = options['onWarning'] || null;\n this.legacy = options['legacy'] || false;\n this.json
=
options['json']
|| false;\n this.listener = options['listener'] || null;\n\n this.implicitTypes =
this.schema.compiledImplicit;\n this.typeMap
= this.schema.compiledTypeMap;\n\n this.length =
input.length;\n this.position = 0;\n this.line
= 0;\n this.lineStart = 0;\n this.lineIndent = 0;\n\n
this.documents = [];\n\n /*\n this.version;\n this.checkLineBreaks;\n this.tagMap;\n this.anchorMap;\n this.tag;\n
this.anchor;\n this.kind;\n this.result;*/\n\n}\n\n\nfunction generateError(state, message) {\n return new
YAMLException(\n message,\n new Mark(state.filename, state.input, state.position, state.line, (state.position state.lineStart)));\n}\n\nfunction throwError(state, message) {\n throw generateError(state,
message);\n}\n\nfunction throwWarning(state, message) {\n if (state.onWarning) {\n state.onWarning.call(null,
generateError(state, message));\n }\n}\n\n\nvar directiveHandlers = {\n\n YAML: function
handleYamlDirective(state, name, args) {\n\n var match, major, minor;\n\n if (state.version !== null) {\n
throwError(state, 'duplication of %YAML directive');\n }\n\n if (args.length !== 1) {\n
throwError(state,
'YAML directive accepts exactly one argument');\n }\n\n match = /^([0-9]+)\\.([0-9]+)$/.exec(args[0]);\n\n if
(match === null) {\n
throwError(state, 'ill-formed argument of the YAML directive');\n }\n\n major =
parseInt(match[1], 10);\n minor = parseInt(match[2], 10);\n\n if (major !== 1) {\n
throwError(state,
'unacceptable YAML version of the document');\n }\n\n state.version = args[0];\n state.checkLineBreaks =
(minor < 2);\n\n if (minor !== 1 && minor !== 2) {\n
throwWarning(state, 'unsupported YAML version of the
document');\n }\n },\n\n TAG: function handleTagDirective(state, name, args) {\n\n var handle, prefix;\n\n if
(args.length !== 2) {\n
throwError(state, 'TAG directive accepts exactly two arguments');\n }\n\n handle =
args[0];\n prefix = args[1];\n\n if (!PATTERN_TAG_HANDLE.test(handle)) {\n
throwError(state, 'illformed tag handle (first argument) of the TAG directive');\n }\n\n if (_hasOwnProperty.call(state.tagMap,
handle)) {\n
throwError(state, 'there is a previously declared suffix for \"' + handle + '\" tag handle');\n }\n\n if
(!PATTERN_TAG_URI.test(prefix)) {\n
throwError(state, 'ill-formed tag prefix (second argument) of the TAG
directive');\n }\n\n state.tagMap[handle] = prefix;\n }\n};\n\n\nfunction captureSegment(state, start, end,
checkJson) {\n var _position, _length, _character, _result;\n\n if (start < end) {\n _result = state.input.slice(start,
end);\n\n if (checkJson) {\n
for (_position = 0, _length = _result.length; _position < _length; _position += 1)
{\n
_character = _result.charCodeAt(_position);\n
if (!(_character === 0x09 ||\n
(0x20 <=
_character && _character <= 0x10FFFF))) {\n
throwError(state, 'expected valid JSON character');\n
}\n
}\n } else if (PATTERN_NON_PRINTABLE.test(_result)) {\n
throwError(state, 'the stream contains nonprintable characters');\n }\n\n state.result += _result;\n }\n}\n\nfunction mergeMappings(state, destination,
source, overridableKeys) {\n var sourceKeys, key, index, quantity;\n\n if (!common.isObject(source)) {\n
throwError(state, 'cannot merge mappings; the provided source object is unacceptable');\n }\n\n sourceKeys =
Object.keys(source);\n\n for (index = 0, quantity = sourceKeys.length; index < quantity; index += 1) {\n key =

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function storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, valueNode, startLine, startPos) {
  var index, quantity;

  keyNode = String(keyNode);

  if (_result === null) {
    _result = {};
  }

  if (keyTag === 'tag:yaml.org,2002:merge') {
    if (Array.isArray(valueNode)) {
      for (index = 0, quantity = valueNode.length; index < quantity; index += 1) {
        mergeMappings(state, _result, valueNode[index], overridableKeys);
      }
    } else {
      mergeMappings(state, _result, valueNode, overridableKeys);
    }
  }
}

function testDocumentSeparator(state) {
  var _position = state.position,
      ch;

  ch = state.input.charCodeAt(_position);

  // Condition state.position === state.lineStart is tested in parent
  // on each call, for efficiency. No needs to test here again.
  if ((ch === 0x2D/* - */ || ch === 0x2E/* . */) &&
      ch === state.input.charCodeAt(_position + 1) &&
      ch === state.input.charCodeAt(_position + 2)) {
    _position += 3;
    ch = state.input.charCodeAt(_position);
    hasPendingContent = false;
  } else if (count > 1) {
    state.result += common.repeat('\n', count - 1);
  }

  return false;
}

function writeFoldedLines(state, count) {
  if (count === 1) {
    state.result += ' ';
  } else if (count > 1) {
    state.result += common.repeat('\n', count - 1);
  }
}

sourceKeys[index];

    if (!_hasOwnProperty.call(destination, key)) {
      destination[key] = source[key];
      overridableKeys[key] = true;
    } else {
      if (_result !== null) {
        _result = {};
      }
      if (keyTag === 'tag:yaml.org,2002:merge') {
        if (Array.isArray(valueNode)) {
          for (index = 0, quantity = valueNode.length; index < quantity; index += 1) {
            mergeMappings(state, _result, valueNode[index], overridableKeys);
          }
        } else {
          mergeMappings(state, _result, valueNode, overridableKeys);
        }
      }
    }
  }
}

function storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, valueNode, startLine, startPos) {
  var index, quantity;

  keyNode = String(keyNode);

  if (_result === null) {
    _result = {};
  }

  if (keyTag === 'tag:yaml.org,2002:merge') {
    if (Array.isArray(valueNode)) {
      for (index = 0, quantity = valueNode.length; index < quantity; index += 1) {
        mergeMappings(state, _result, valueNode[index], overridableKeys);
      }
    } else {
      mergeMappings(state, _result, valueNode, overridableKeys);
    }
  }
}

function readLineBreak(state) {
  var ch;

  ch = state.input.charCodeAt(state.position);

  if (ch === 0x0A/* LF */) {
    state.position++;
  } else if (ch === 0x0D/* CR */) {
    state.position++;
    if (state.input.charCodeAt(state.position) === 0x0A/* LF */) {
      state.position++;
    }
  } else {
    throwError(state, 'a line break is expected');
  }

  state.line += 1;
  state.lineStart = state.position;
}

function skipSeparationSpace(state, allowComments, checkIndent) {
  var lineBreaks = 0,
      ch = state.input.charCodeAt(state.position);

  while (ch !== 0) {
    while (is_WHITE_SPACE(ch)) {
      ch = state.input.charCodeAt(++state.position);
    }

    if (allowComments && ch === 0x23/* # */) {
      do {
        ch = state.input.charCodeAt(++state.position);
      } while (ch !== 0x0A/* LF */ && ch !== 0x0D/* CR */ && ch !== 0);
    }

    if (is_EOL(ch)) {
      readLineBreak(state);

      ch = state.input.charCodeAt(state.position);
      lineBreaks++;
      state.lineIndent = 0;

      while (ch === 0x20/* Space */) {
        state.lineIndent++;
        ch = state.input.charCodeAt(++state.position);
      }
    } else {
      break;
    }
  }

  if (checkIndent !== -1 && lineBreaks !== 0 && state.lineIndent < checkIndent) {
    throwWarning(state, 'deficient indentation');
  }

  return lineBreaks;
}

function readPlainScalar(state, nodeIndent, withinFlowCollection) {
  var preceding,
      following,
      captureStart,
      captureEnd,
      hasPendingContent,
      _line,
      _lineStart,
      _lineIndent,
      _kind = state.kind,
      _result = state.result,
      ch;

  ch = state.input.charCodeAt(state.position);

  if (is_WS_OR_EOL(ch) ||
      is_FLOW_INDICATOR(ch) ||
      ch === 0x23/* # */ ||
      ch === 0x26/* & */ ||
      ch === 0x2A/* * */ ||
      ch === 0x21/* ! */ ||
      ch === 0x7C/* | */ ||
      ch === 0x3E/* > */ ||
      ch === 0x27/* ' */ ||
      ch === 0x22/* " */ ||
      ch === 0x25/* % */ ||
      ch === 0x40/* @ */ ||
      ch === 0x60/* ` */) {
    return false;
  }

  if (ch === 0x3F/* ? */ || ch === 0x2D/* - */) {
    following = state.input.charCodeAt(state.position + 1);

    if (is_WS_OR_EOL(following) ||
        withinFlowCollection && is_FLOW_INDICATOR(following)) {
      return false;
    }

    state.kind = 'scalar';
    state.result = state.result + ' ';
    ch = state.input.charCodeAt(state.position);
  } else if (count > 1) {
    state.result += common.repeat('\n', count - 1);
  }

  return readPlainScalar(state, nodeIndent, withinFlowCollection);
}

function testDocumentSeparator(state) {
  var _position = state.position,
      ch;

  ch = state.input.charCodeAt(_position);

  // Condition state.position === state.lineStart is tested in parent
  // on each call, for efficiency. No needs to test here again.
  if ((ch === 0x2D/* - */ || ch === 0x2E/* . */) &&
      ch === state.input.charCodeAt(_position + 1) &&
      ch === state.input.charCodeAt(_position + 2)) {
    _position += 3;
    ch = state.input.charCodeAt(_position);
    hasPendingContent = false;
  } else if (count > 1) {
    state.result += common.repeat('\n', count - 1);
  }

  return false;
}

function writeFoldedLines(state, count) {
  if (count === 1) {
    state.result += ' ';
  } else if (count > 1) {
    state.result += common.repeat('\n', count - 1);
  }
}

sourceKeys[index];

    if (!_hasOwnProperty.call(destination, key)) {
      destination[key] = source[key];
      overridableKeys[key] = true;
    } else {
      if (_result !== null) {
        _result = {};
      }
      if (keyTag === 'tag:yaml.org,2002:merge') {
        if (Array.isArray(valueNode)) {
          for (index = 0, quantity = valueNode.length; index < quantity; index += 1) {
            mergeMappings(state, _result, valueNode[index], overridableKeys);
          }
        } else {
          mergeMappings(state, _result, valueNode, overridableKeys);
        }
      }
    }
  }
}
isExplicitPair = false; if (ch == 0x3F/* ? */) { 
  isPair = isExplicitPair = true; 
  state.position++; 
  skipSeparationSpace(state, true, nodeIndent); 
} else if (ch == 0x3A/* : */) {
  state.position++; 
  skipSeparationSpace(state, true, nodeIndent);
  composeNode(state, nodeIndent, CONTEXT_FLOW_IN, false, true); 
  _line = state.line; 
  composeNode(state, nodeIndent, CONTEXT_FLOW_IN, false, true); 
  valueNode = state.result;
  ch = state.input.charCodeAt(state.position);
  if ((isExplicitPair || state.line === _line) && ch === 0x2C/* , */) {
    isPair = true;
    ch = state.input.charCodeAt(state.position);
    skipSeparationSpace(state, true, nodeIndent);
  }
  _line = state.line;
  composeNode(state, nodeIndent, CONTEXT_FLOW_IN, false, true);
  keyTag = state.tag;
  keyNode = state.result;
  keyTag = state.tag;
  keyNode = state.result;
  skipSeparationSpace(state, true, nodeIndent);
  ch = state.input.charCodeAt(state.position);
  if (ch === 0x2C/* , */) {
    isPair = true;
    ch = state.input.charCodeAt(state.position);
  }

  if (ch === 0x2C/* , */) { 
    readNext = true;
    ch = state.input.charCodeAt(++state.position);
  } else {
    readNext = false;
  }
}

readBlockScalar(state, nodeIndent) {
  captureStart = false;
  folding = CHOMPING_CLIP,
  didReadContent = false;
  detectedIndent = false;
  textIndent = nodeIndent;
  emptyLines = 0;
  atMoreIndented = false;
  tmp, ch;
  ch = state.input.charCodeAt(state.position);
  if (ch === 0x7C/* | */) {
    folding = false;
  } else if (ch === 0x3E/* > */) {
    folding = true;
  } else {
    return false;
  }

  state.kind = 'scalar';
  state.result = '';

  while (ch !== 0) {
    ch = state.input.charCodeAt(++state.position);
    if (ch === 0x2B/* + */ || ch === 0x2D/* - */) {
      if (CHOMPING_CLIP === chomping) {
        chomping = (ch === 0x2B/* + */) ? CHOMPING_KEEP : CHOMPING_STRIP;
      } else {
        throwError(state, 'repeat of a chomping mode identifier');
      }
    } else if ((tmp = fromDecimalCode(ch)) >= 0) {
      if (tmp === 0) {
        throwError(state, 'bad explicit indentation width of a block scalar; it cannot be less than one');
      } else if (!detectedIndent) {
        textIndent = nodeIndent + tmp - 1;
        detectedIndent = true;
      } else {
        throwError(state, 'repeat of an indentation width identifier');
      }
    } else {
      break;
    }
  }

  if (is_WHITE_SPACE(ch)) {
    do { ch = state.input.charCodeAt(state.position); } while (is_WHITE_SPACE(ch));
  }

  state.lineIndent = 0;
  ch = state.input.charCodeAt(state.position);
  while (!!detectedIndent) {
    while (is_EOL(ch) & & (ch !== 0)) {
      while (is_EOL(ch) & & (ch !== 0));
      if (ch === 0x20/* Space */) {
        while (ch === 0x20/* Space */) {
          state.lineIndent += 1;
        }
      }
    }

    if (is_EOL(ch)) {
      state.result += common.repeat('', 1 + emptyLines);
      // Break this 'while' cycle and go to the function's epilogue.
      break;
    }

    // Folded style: use fancy rules to handle line breaks.
    if (folding) {
      lineBreak(state);
      state.lineIndent = 0;
      state.result += common.repeat('', 1 + emptyLines);
      // End of the scalar.
      if (state.lineIndent < textIndent) {
        // Perform the chomping.
        if (chomping === CHOMPING_KEEP) {
          state.result += common.repeat('', 1 + emptyLines);
          // Lines starting with white space characters (more-indented lines) are not folded.
          if (is_WHITE_SPACE(ch)) {
            atMoreIndented = true;
          }
          if (chomping === CHOMPING_CLIP) {
            if (didReadContent) {
              if (is_EOL(ch)) {
                emptyLines++; 
                continue;
              }
              // i.e. only if the scalar is not empty.
              state.result += common.repeat('', 1 + emptyLines);
              // Just one line break - perceive as the same line.
            } else if (emptyLines === 0) {
              if (didReadContent) {
                // i.e. only if we have already read some scalar content.
                state.result += common.repeat('', 1 + emptyLines);
                // Several line breaks - perceive as different lines.
              } else {
                state.result += common.repeat('', 1 + emptyLines);
                // Literal style: just add exact number of line breaks between content lines.
              } else {
                // Keep all line breaks except the header line break.
              }
            }
            if (didReadContent) {
              // i.e. only if we have already read some scalar content.
            }
          }
        }
        state.lineIndent += 1;
        state.result += common.repeat('', 1 + emptyLines);
        // End of the scalar.
        if (state.lineIndent < textIndent) {
          // Perform the chomping.
          if (chomping === CHOMPING_KEEP) {
            state.result += common.repeat('', 1 + emptyLines);
            // Lines starting with white space characters (more-indented lines) are not folded.
            if (is_WHITE_SPACE(ch)) {
              atMoreIndented = true;
            }
            if (chomping === CHOMPING_CLIP) {
              if (didReadContent) {
                if (is_EOL(ch)) {
                  emptyLines++; 
                  continue;
                }
                // i.e. only if the scalar is not empty.
                state.result += common.repeat('', 1 + emptyLines);
                // Just one line break - perceive as the same line.
              } else if (emptyLines === 0) {
                if (didReadContent) {
                  // i.e. only if we have already read some scalar content.
                  state.result += common.repeat('', 1 + emptyLines);
                  // Several line breaks - perceive as different lines.
                } else {
                  state.result += common.repeat('', 1 + emptyLines);
                  // Literal style: just add exact number of line breaks between content lines.
                } else {
                  // Keep all line breaks except the header line break.
                }
              }
            }
          }
        }
      }
    }
  }
}

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if (atExplicitKey) {
  storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, null);
}

Expose the resulting mapping.

if (detected) {
  state.tag = _tag;
  state.anchor = _anchor;
  state.kind = 'mapping';
  state.result = _result;
  return detected;
}

function readTagProperty(state) {

  var _position,
      isVerbatim = false,
      isNamed    = false,
      tagHandle,
      tagName,
      ch;

  ch = state.input.charCodeAt(state.position);

  if (ch !== 0x21/* ! */) return false;

  if (state.tag !== null) {
    throwError(state, 'duplication of a tag property');
  }

  ch = state.input.charCodeAt(++state.position);

  _position = state.position;

  while (ch !== 0 && !is_WS_OR_EOL(ch)) {

    if (ch === 0x21/* ! */) {
      if (!isNamed) {
        tagHandle = state.input.slice(_position - 1, state.position + 1);

        if (!PATTERN_TAG_HANDLE.test(tagHandle)) {
          throwError(state, 'named tag handle cannot contain such characters');
        }

        isNamed = true;
        _position = state.position + 1;
      } else {
        throwError(state, 'tag suffix cannot contain exclamation marks');
      }
    }

    ch = state.input.charCodeAt(++state.position);
  }

  tagName = state.input.slice(_position, state.position);

  if (PATTERN_FLOW_INDICATORS.test(tagName)) {
    throwError(state, 'tag suffix cannot contain flow indicator characters');
  }

  if (tagName && !PATTERN_TAG_URI.test(tagName)) {
    throwError(state, 'tag name cannot contain such characters: ' + tagName);
  }

  if (isVerbatim) {
    state.tag = tagName;

  } else if (_hasOwnProperty.call(state.tagMap, tagHandle)) {
    state.tag = state.tagMap[tagHandle] + tagName;

  } else if (tagHandle === '!!') {
    state.tag = 'tag:yaml.org,2002:' + tagName;

  } else {
    throwError(state, 'undeclared tag handle "' + tagHandle + '"');
  }

  return true;
}

function readAnchorProperty(state) {

  var _position,
      ch;

  ch = state.input.charCodeAt(state.position);

  if (ch !== 0x26/* & */) return false;

  ch = state.input.charCodeAt(++state.position);
  _position = state.position;

  while (ch !== 0 && !is_WS_OR_EOL(ch) && !is_FLOW_INDICATOR(ch)) {
    ch = state.input.charCodeAt(++state.position);
  }

  if (state.position === _position) {
    throwError(state, 'name of an anchor node must contain at least one character');
  }

  alias = state.input.slice(_position, state.position);

  if (!state.anchorMap.hasOwnProperty(alias)) {
    throwError(state, 'unidentified alias "' + alias + '"');
  }

  state.result = state.anchorMap[alias];
  skipSeparationSpace(state, true, -1);
  return true;
}

function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {

  var allowBlockStyles,
      allowBlockScalars,
      allowBlockCollections,
      indentStatus = 1, // 1: this>parent, 0: this=parent, -1: this<parent
      atNewLine  = false,
      hasContent = false,
      typeIndex,
      typeQuantity,
      type,
      flowIndent,
      blockIndent;

  if (state.listener !== null) {
    state.listener('open', state);
  }

  state.tag    = null;
  state.anchor = null;
  state.kind   = null;
  state.result = null;

  if (state.flowIndent !== null) {
    skipSeparationSpace(state, true, -1);
    return true;
  }

  function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {

    var var_position, alias,
        ch;

  ch = state.input.charCodeAt(state.position);

  if (ch === 0x2A/* * */) {
    throwError(state, 'name of an anchor node must contain at least one character');
  }

  alias = state.input.slice(_position, state.position);

  if (!state.anchorMap.hasOwnProperty(alias)) {
    throwError(state, 'unidentified alias "' + alias + '"');
  }

  state.result = state.anchorMap[alias];
  skipSeparationSpace(state, true, -1);
  return true;
}

if (state.ancestorMap.hasOwnProperty(alias)) {

  throw>Error(state, 'unidentified alias "' + alias + '"');
}

state.result = state.ancestorMap[alias];

skipSeparationSpace(state, true, -1);

return true;

}
directiveArgs.push(state.input.slice(_position, state.position));

if (ch !== 0) readLineBreak(state);

if (_hasOwnProperty.call(directiveHandlers, directiveName)) {
  directiveHandlers[directiveName](state, directiveName, directiveArgs);
} else {
  throwWarning(state, 'unknown document directive "' +
  directiveName + '"');
}

skipSeparationSpace(state, true, -1);

if (state.lineIndent === 0 &&
state.input.charCodeAt(state.position)     === 0x2D/* - */ &&
state.input.charCodeAt(state.position + 1) === 0x2D/* - */ &&
state.input.charCodeAt(state.position + 2) === 0x2D/* - */) {
  state.position += 3;
}

skipSeparationSpace(state, true, -1);

if (hasDirectives) {
  throwError(state, 'directives end mark is expected');
}

composeNode(state, state.lineIndent - 1, CONTEXT_BLOCK_OUT, false, true);

skipSeparationSpace(state, true, -1);

if (state.checkLineBreaks &&
PATTERN_NON_ASCII_LINEBREAKS.test(state.input.slice(documentStart, state.position))) {
  throwWarning(state, 'non-ASCII line breaks are interpreted as content');
}

state.documents.push(state.result);

if (state.position === state.lineStart &&
state.input.charCodeAt(state.position) === 0x2E/* . */) {
  state.position += 3;
}

skipSeparationSpace(state, true, -1);

if (state.input.charCodeAt(state.position) === 0x20/* Space */) {
  state.lineIndent += 1;
  state.position += 1;
}

while (state.position < (state.length - 1)) {
  readDocument(state);
}

return state.documents;

function load(input, options) {
  var documents = loadDocuments(input, options);

  if (documents.length === 0) {
    /*eslint-disable no-undefined*/
    return undefined;
  } else if (documents.length === 1) {
    return documents[0];
  }

  throw new YAMLException('expected a single document in the stream, but found more');
}

function safeLoad(input, options) {
  return load(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
}

module.exports.loadAll     = loadAll;
module.exports.load        = load;
module.exports.safeLoadAll = safeLoadAll;
module.exports.safeLoad    = safeLoad;
0", "use strict;\n
var Type = require('../type');\n
function resolveJavascriptRegExp(data) {\n  if (data === null) return false;\n  if (data.length === 0) return false;\n  var regexp = data,\n      tail = '\/(\[[gim]+\])*$/.exec(data),\n      modifiers = '';\n
  if (modifiers.length > 3) return false;\n
  if (regexp[regexp.length - modifiers.length - 1] !== '/') \n    return false;\n
  return true;\n}\n
function constructJavascriptRegExp(data) {\n  var regexp = data,\n      tail = '\/(\[[gim]+\])*$/exec(data),\n      modifiers = '',\n      // modifers tail can be maximum 3 characters\n      if (regexp[0] === '/') {\n    if (tail) return true;\n    return false;\n  }\n
  return false;\n}\n
function representJavascriptRegExp(object /*, style*/) {\n  return object.toString();\n}\n
function isRegExp(object) {\n  return Object.prototype.toString.call(object) === '[object RegExp]';\n}\n
module.exports = new Type('tag:yaml.org,2002:js/regexp', {\n  kind: 'scalar',\n  resolve: resolveJavascriptRegExp,\n  construct: constructJavascriptRegExp,\n  predicate: isRegExp,\n  represent: representJavascriptRegExp\n});\n
//////////////////\n// WEBPACK FOOTER\n// module id = 760\n// module chunks = 0\n
// Use a global esprima, if it's available\n
if (typeof window !== 'undefined') \n  esprima = window.esprima;\n
var Type = require('../../type');\n
function resolveJavascriptFunction(data) {\n  try {\n    var source = '(' + data + ')',\n        ast = esprima.parse(source, { range: true });\n
    if (ast.type !== 'Program' ||\n        ast.body.length !== 1 ||\n        ast.body[0].type !== 'ExpressionStatement' ||\n        (ast.body[0].expression.type !== 'ArrowFunctionExpression' &&\n          ast.body[0].expression.type !== 'FunctionExpression')) {\n      return false;\n    }\n
    return true;\n  } catch (err) {\n    return false;\n  }\n}

function constructJavascriptFunction(data) {\n  /*eslint-disable evil:true*/\n
  var source = '(' + data + ')',\n      ast = esprima.parse(source, { range: true }),\n      params = [],\n      body;\n
  if (ast.type !== 'Program' ||\n      ast.body.length !== 1 ||\n      ast.body[0].type !== 'ExpressionStatement') {\n    throw new Error('Failed to resolve function');\n  }\n
  ast.body[0].expression.params.forEach(function (param) {\n    params.push(param.name);\n  });\n
  body = ast.body[0].expression.body.range;\n
  if (ast.body[0].expression.body.type === 'BlockStatement') {\n    /*eslint-disable no-new-func*/\n    return new Function(params, source.slice(body[0], body[1]));\n  } else if (ast.body[0].expression.body.type === 'ArrowFunctionExpression') {\n    /*eslint-disable no-new-func*/\n    return new Function(params, source.slice(body[0] + 1, body[1] - 1));\n  }\n
  throw new Error('Failed to resolve function');\n}\n
function isFunction(object) {\n  return Object.prototype.toString.call(object) === '[object Function]';\n}\n
module.exports = new Type('tag:yaml.org,2002:js/function', {\n  kind: 'scalar',\n  resolve: resolveJavascriptFunction,\n  construct: constructJavascriptFunction,\n  predicate: isFunction,\n  represent: representJavascriptFunction\n});\n
//////////////////\n// WEBPACK FOOTER\n// module id = 761\n// module chunks = 0

var common = require('./common');\nvar YAMLException = require('./exception');\nvar DEFAULT_FULL_SCHEMA = require('./schema/default_full');\nvar DEFAULT_SAFE_SCHEMA = require('./schema/default_safe');\n
var CHAR_TAB = 0x09; /* Tab */\nvar CHAR_LINE_FEED = 0x0A; /* LF */\nvar CHAR_SPACE = 0x20; /* Space */\nvar CHAR_EXCLAMATION = 0x21; /* ! */\nvar CHAR_DOUBLE_QUOTE = 0x22; /* " */\nvar CHAR_SHARP = 0x23; /* # */\nvar CHAR_PERCENT = 0x25; /* % */\nvar CHAR_APOSTROPHE = 0x27; /* ' */\nvar CHAR_TAB = 0x09; /* Tab */\nvar CHAR_LINE_FEED = 0x0A; /* LF */\nvar CHAR_SPACE = 0x20; /* Space */\nvar CHAR_EXCLAMATION = 0x21; /* ! */\nvar CHAR_DOUBLE_QUOTE = 0x22; /* " */\nvar CHAR_SHARP = 0x23; /* # */\nvar CHAR_PERCENT = 0x25; /* % */\nvar CHAR_APOSTROPHE = 0x27; /* ' */

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character in plain style.\nfunction isPlainSafe(c) {\n // Uses a subset of nb-char - c-flow-indicator - \":\" - \"#\"\n //
where nb-char ::= c-printable - b-char - c-byte-order-mark.\n return isPrintable(c) && c !== 0xFEFF\n // - c-flowindicator\n && c !== CHAR_COMMA\n && c !== CHAR_LEFT_SQUARE_BRACKET\n && c !==
CHAR_RIGHT_SQUARE_BRACKET\n && c !== CHAR_LEFT_CURLY_BRACKET\n && c !==
CHAR_RIGHT_CURLY_BRACKET\n // - \":\" - \"#\"\n && c !== CHAR_COLON\n && c !==
CHAR_SHARP;\n}\n\n// Simplified test for values allowed as the first character in plain style.\nfunction
isPlainSafeFirst(c) {\n // Uses a subset of ns-char - c-indicator\n // where ns-char = nb-char - s-white.\n return
isPrintable(c) && c !== 0xFEFF\n && !isWhitespace(c) // - s-white\n // - (c-indicator ::=\n // “-” | “?” | “:” |
“,” | “[” | “]” | “{” | “}”\n && c !== CHAR_MINUS\n && c !== CHAR_QUESTION\n && c !==
CHAR_COLON\n && c !== CHAR_COMMA\n && c !== CHAR_LEFT_SQUARE_BRACKET\n && c
!== CHAR_RIGHT_SQUARE_BRACKET\n && c !== CHAR_LEFT_CURLY_BRACKET\n && c !==
CHAR_RIGHT_CURLY_BRACKET\n // | “#” | “&” | “*” | “!” | “|” | “>” | “'” | “\"”\n && c !==
CHAR_SHARP\n && c !== CHAR_AMPERSAND\n && c !== CHAR_ASTERISK\n && c !==
CHAR_EXCLAMATION\n && c !== CHAR_VERTICAL_LINE\n && c !== CHAR_GREATER_THAN\n
&& c !== CHAR_SINGLE_QUOTE\n && c !== CHAR_DOUBLE_QUOTE\n // | “%” | “@” | “`”)\n && c
!== CHAR_PERCENT\n && c !== CHAR_COMMERCIAL_AT\n && c !==
CHAR_GRAVE_ACCENT;\n}\n\n// Determines whether block indentation indicator is required.\nfunction
needIndentIndicator(string) {\n var leadingSpaceRe = /^\\n* /;\n return leadingSpaceRe.test(string);\n}\n\nvar
STYLE_PLAIN = 1,\n STYLE_SINGLE = 2,\n STYLE_LITERAL = 3,\n STYLE_FOLDED = 4,\n
STYLE_DOUBLE = 5;\n\n// Determines which scalar styles are possible and returns the preferred style.\n//
lineWidth = -1 => no limit.\n// Pre-conditions: str.length > 0.\n// Post-conditions:\n// STYLE_PLAIN or
STYLE_SINGLE => no \\n are in the string.\n// STYLE_LITERAL => no lines are suitable for folding (or
lineWidth is -1).\n// STYLE_FOLDED => a line > lineWidth and can be folded (and lineWidth != -1).\nfunction
chooseScalarStyle(string, singleLineOnly, indentPerLevel, lineWidth, testAmbiguousType) {\n var i;\n var char;\n
var hasLineBreak = false;\n var hasFoldableLine = false; // only checked if shouldTrackWidth\n var
shouldTrackWidth = lineWidth !== -1;\n var previousLineBreak = -1; // count the first line correctly\n var plain =
isPlainSafeFirst(string.charCodeAt(0))\n
&& !isWhitespace(string.charCodeAt(string.length - 1));\n\n if
(singleLineOnly) {\n // Case: no block styles.\n // Check for disallowed characters to rule out plain and single.\n
for (i = 0; i < string.length; i++) {\n
char = string.charCodeAt(i);\n
if (!isPrintable(char)) {\n
return
STYLE_DOUBLE;\n
}\n
plain = plain && isPlainSafe(char);\n }\n } else {\n // Case: block styles
permitted.\n for (i = 0; i < string.length; i++) {\n
char = string.charCodeAt(i);\n
if (char ===
CHAR_LINE_FEED) {\n
hasLineBreak = true;\n
// Check if any line can be folded.\n
if
(shouldTrackWidth) {\n
hasFoldableLine = hasFoldableLine ||\n
// Foldable line = too long, and not
more-indented.\n
(i - previousLineBreak - 1 > lineWidth &&\n
string[previousLineBreak + 1] !== '
');\n
previousLineBreak = i;\n
}\n
} else if (!isPrintable(char)) {\n
return STYLE_DOUBLE;\n
}\n
plain = plain && isPlainSafe(char);\n }\n // in case the end is missing a \\n\n hasFoldableLine =
hasFoldableLine || (shouldTrackWidth &&\n
(i - previousLineBreak - 1 > lineWidth &&\n
string[previousLineBreak + 1] !== ' '));\n }\n // Although every style can represent \\n without escaping, prefer
block styles\n // for multiline, since they're more readable and they don't add empty lines.\n // Also prefer folding a
super-long line.\n if (!hasLineBreak && !hasFoldableLine) {\n // Strings interpretable as another type have to be
quoted;\n // e.g. the string 'true' vs. the boolean true.\n return plain && !testAmbiguousType(string)\n
?
STYLE_PLAIN : STYLE_SINGLE;\n }\n // Edge case: block indentation indicator can only have one digit.\n if
(indentPerLevel > 9 && needIndentIndicator(string)) {\n return STYLE_DOUBLE;\n }\n // At this point we
know block styles are valid.\n // Prefer literal style unless we want to fold.\n return hasFoldableLine ?
STYLE_FOLDED : STYLE_LITERAL;\n}\n\n// Note: line breaking/folding is implemented for only the folded
style.\n// NB. We drop the last trailing newline (if any) of a returned block scalar\n// since the dumper adds its own
newline. This always works:\n// • No ending newline => unaffected; already using strip \"-\" chomping.\n// •
Ending newline => removed then restored.\n// Importantly, this keeps the \"+\" chomp indicator from gaining an

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extra line.\nfunction writeScalar(state, string, level, iskey) {\n state.dump = (function () {\n if (string.length ===
0) {\n
return \"''\";\n }\n if (!state.noCompatMode &&\n
DEPRECATED_BOOLEANS_SYNTAX.indexOf(string) !== -1) {\n
return \"'\" + string + \"'\";\n }\n\n var
indent = state.indent * Math.max(1, level); // no 0-indent scalars\n // As indentation gets deeper, let the width
decrease monotonically\n // to the lower bound min(state.lineWidth, 40).\n // Note that this implies\n //
state.lineWidth 40 + state.indent: width is fixed at the lower bound.\n // state.lineWidth > 40 + state.indent: width
decreases until the lower bound.\n // This behaves better than a constant minimum width which disallows narrower
options,\n // or an indent threshold which causes the width to suddenly increase.\n var lineWidth =
state.lineWidth === -1\n
? -1 : Math.max(Math.min(state.lineWidth, 40), state.lineWidth - indent);\n\n //
Without knowing if keys are implicit/explicit, assume implicit for safety.\n var singleLineOnly = iskey\n
// No
block styles in flow mode.\n
|| (state.flowLevel > -1 && level >= state.flowLevel);\n function
testAmbiguity(string) {\n
return testImplicitResolving(state, string);\n }\n\n switch (chooseScalarStyle(string,
singleLineOnly, state.indent, lineWidth, testAmbiguity)) {\n
case STYLE_PLAIN:\n
return string;\n
case
STYLE_SINGLE:\n
return \"'\" + string.replace(/'/g, \"''\") + \"'\";\n
case STYLE_LITERAL:\n
return '|'
+ blockHeader(string, state.indent)\n
+ dropEndingNewline(indentString(string, indent));\n
case
STYLE_FOLDED:\n
return '>' + blockHeader(string, state.indent)\n
+
dropEndingNewline(indentString(foldString(string, lineWidth), indent));\n
case STYLE_DOUBLE:\n
return
'\"' + escapeString(string, lineWidth) + '\"';\n
default:\n
throw new YAMLException('impossible error:
invalid scalar style');\n }\n }());\n}\n\n// Pre-conditions: string is valid for a block scalar, 1 <= indentPerLevel <=
9.\nfunction blockHeader(string, indentPerLevel) {\n var indentIndicator = needIndentIndicator(string) ?
String(indentPerLevel) : '';\n\n // note the special case: the string '\\n' counts as a \"trailing\" empty line.\n var clip =
string[string.length - 1] === '\\n';\n var keep = clip && (string[string.length - 2] === '\\n' || string === '\\n');\n
var chomp = keep ? '+' : (clip ? '' : '-');\n\n return indentIndicator + chomp + '\\n';\n}\n\n// (See the note for
writeScalar.)\nfunction dropEndingNewline(string) {\n return string[string.length - 1] === '\\n' ? string.slice(0, -1) :
string;\n}\n\n// Note: a long line without a suitable break point will exceed the width limit.\n// Pre-conditions: every
char in str isPrintable, str.length > 0, width > 0.\nfunction foldString(string, width) {\n // In folded style, $k$
consecutive newlines output as $k+1$ newlines—\n // unless they're before or after a more-indented line, or at the
very\n // beginning or end, in which case $k$ maps to $k$.\n // Therefore, parse each chunk as newline(s) followed
by a content line.\n var lineRe = /(\\n+)([^\\n]*)/g;\n\n // first line (possibly an empty line)\n var result = (function
() {\n var nextLF = string.indexOf('\\n');\n nextLF = nextLF !== -1 ? nextLF : string.length;\n lineRe.lastIndex
= nextLF;\n return foldLine(string.slice(0, nextLF), width);\n }());\n // If we haven't reached the first content line
yet, don't add an extra \\n.\n var prevMoreIndented = string[0] === '\\n' || string[0] === ' ';\n var moreIndented;\n\n
// rest of the lines\n var match;\n while ((match = lineRe.exec(string))) {\n var prefix = match[1], line =
match[2];\n moreIndented = (line[0] === ' ');\n result += prefix\n
+ (!prevMoreIndented && !moreIndented
&& line !== ''\n
? '\\n' : '')\n
+ foldLine(line, width);\n prevMoreIndented = moreIndented;\n }\n\n return
result;\n}\n\n// Greedy line breaking.\n// Picks the longest line under the limit each time,\n// otherwise settles for the
shortest line over the limit.\n// NB. More-indented lines *cannot* be folded, as that would add an extra
\\n.\nfunction foldLine(line, width) {\n if (line === '' || line[0] === ' ') return line;\n\n // Since a more-indented line
adds a \\n, breaks can't be followed by a space.\n var breakRe = / [^ ]/g; // note: the match index will always be <=
length-2.\n var match;\n // start is an inclusive index. end, curr, and next are exclusive.\n var start = 0, end, curr =
0, next = 0;\n var result = '';\n\n // Invariants: 0 <= start <= length-1.\n // 0 <= curr <= next <= max(0, length-2).
curr - start <= width.\n // Inside the loop:\n // A match implies length >= 2, so curr and next are <= length-2.\n
while ((match = breakRe.exec(line))) {\n next = match.index;\n // maintain invariant: curr - start <= width\n if
(next - start > width) {\n
end = (curr > start) ? curr : next; // derive end <= length-2\n
result += '\\n' +
line.slice(start, end);\n
// skip the space that was output as \\n\n
start = end + 1;
// derive start <=
length-1\n }\n curr = next;\n }\n\n // By the invariants, start <= length-1, so there is something left over.\n // It
is either the whole string or a part starting from non-whitespace.\n result += '\\n';\n // Insert a break if the remainder
is too long and there is a break available.\n if (line.length - start > width && curr > start) {\n result +=

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line.slice(start, curr) + \n' + line.slice(curr + 1):\n } else {\n   result += line.slice(start):\n }\n return result.slice(1); // drop extra \n joiner;\n}\n// Escapes a double-quoted string:function escapeString(string) {\n var result = "\n var char, nextChar;\n var escapeSeq;\n for (var i = 0; i < string.length; i++) {\n   char = string.charCodeAt(i);\n   // Check for surrogate pairs (reference Unicode 3.0 section 3.7 Surrogates):\n   if (char >= 0xDC00 && char <= 0xDFFF/* high surrogate */) {\n     nextChar = string.charCodeAt(i + 1);\n     if (nextChar >= 0xDC00 && nextChar <= 0xDFFF/* low surrogate */) {\n       // Combine the surrogate pair and store it if it is not escaped:\n       _result += encodeHex((char - 0xD800) * 0x400 + nextChar - 0xDC00 + 0x10000);\n     }\n   }\n   if (char === 0x20 || char === 0x09 || char === 0x0A || char === 0x0C) {\n     result += char;\n   } else {\n     if (char < 32 || char === 127) {\n       result += '\\';\n       result += char.toString(16).toUpperCase();\n     } else {\n       result += char;\n     }\n   }\n }\n return result;\n}\nfunction writeFlowSequence(state, level, object) {\n  var _result = '',\n      _tag = state.tag,\n      index,\n      length;\n  for (index = 0, length = object.length; index < length; index += 1) {\n    // Write only valid elements.\n    if ((writeNode(state, level, object[index], false, false)) \n        if (index === 0) _result += '+', \n        if (state.condenseFlow) \n          _result += '\":"', \n        else {
          _result += '\":" + (state.condenseFlow ? '(' : '');\n        }\n      }\n      _result += state.dump;\n      _result += state.tag + ':' + state.dump + (state.condenseFlow ? '' : '');\n    }\n    _result += state.dump;\n    _result += state.tag + ':' + state.dump + _result || '' || '];';\n  }\n  return _result;\n}\nfunction writeBlockSequence(state, level, object, compact) {\n  var _result = '',\n      _tag = state.tag,\n      index,\n      length,\n      objectKey,\n      objectValue,\n      pairBuffer;\n  for (index = 0, length = Object.keys(object).length; index < length; index += 1) {\n    // Write only valid elements.\n    if (writeNode(state, level + 1, object[index], true, true, true)) {\n      if (!_compact || index !== 0) _result += ',' + (!state.condenseFlow ? ' ' : '');\n      _result += state.dump;\n    }\n  }\n  _result += state.dump;\n  _result += state.tag + ':' + state.dump + _result || '{}' || '[]';\n  return _result;\n}\nfunction writeFlowMapping(state, level, object) {\n  var _result = '',\n      _tag = state.tag,\n      objectKeyList = Object.keys(object),\n      index,\n      length,\n      objectKey,\n      objectValue,\n      pairBuffer;\n  for (index = 0, length = objectKeyList.length; index < length; index += 1) {\n    // Write only valid elements.\n    if ((writeNode(state, level, object[objectKeyList[index]], false, false)) \n        if (index === 0) _result += '+', \n        if (state.condenseFlow) \n          _result += '\":"', \n        else {
          _result += '\":" + (state.condenseFlow ? '(' : '');\n        }\n      }\n      _result += state.dump;\n      _result += state.tag + ':' + state.dump + _result || '' || '[';\n    }\n    _result += state.dump;\n    _result += state.tag + ':' + state.dump + _result || '[' || ']';\n  }\n  return _result;\n}\nfunction writeBlockMapping(state, level, object, compact) {\n  var _result = '',\n      _tag = state.tag,\n      objectKeyList = Object.keys(object),\n      index,\n      length,\n      objectKey,\n      objectValue,\n      explicitPair,\n      pairBuffer;\n  for (index = 0, length = objectKeyList.length; index < length; index += 1) {\n    // Write only valid elements.\n    if (writeNode(state, level + 1, object[objectKeyList[index]], true, true, true)) {\n      if (!_compact || index !== 0) _result += ',' + (!state.condenseFlow ? ' ' : '');\n      _result += state.dump;\n    }\n  }\n  _result += state.dump;\n  _result += state.tag + ':' + state.dump + _result || '{' || '}';\n  return _result;\n}\n// Escapes a double-quoted string.\nfunction escapeString(string) {\n  var char, nextChar;\n  var escapeSeq;\n  var result = "\n  for (var i = 0; i < string.length; i++) {\n    char = string.charCodeAt(i);\n    if (char === 0x20 || char === 0x09 || char === 0x0A || char === 0x0C) {\n      result += char;\n    } else {\n      if (char < 32 || char === 127) {\n        result += '\\';\n        result += char.toString(16).toUpperCase();\n      } else {\n        result += char;\n      }\n    }\n  }\n  return result;\n}
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```
switch (protocol) {
    case 'http':
    return port === null;
    break;

    case 'https':
    case 'wss':
    return port !== 443;

    case 'ftp':
    return true;

    default:
    protocol = protocol.split(':')[0];
    port = +port;

    if (!port) return false;

    switch (protocol) {
        case 'http':
            return port !== 80;
        break;

        case 'https':
        case 'wss':
        return port !== 443;

        case 'ftp':
        return true;
    }
}
```

```javascript
module.exports = function required(port, protocol) {
    // Need to check for valid protocol
    // @api private
} /
```

```javascript
we need to check
// @param {String} protocol Protocol we need to check against.
// @returns {Boolean} Is it a
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```
nativeMax(toNumber(options.maxWait) || 0, wait) : maxWait;
  trailing = 'trailing' in options ? !!options.trailing :
    trailing;

  function invokeFunc(time) {
    var args = lastArgs,
        thisArg = lastThis;

    lastArgs =
      lastThis = undefined;
    lastInvokeTime = time;
    result = func.apply(thisArg, args);
    return result;
  }

  function leadingEdge(time) {
    // Reset any 'maxWait' timer.
    lastInvokeTime = time;
    // Start the timer for the trailing edge.
    timerId = setTimeout(timerExpired, wait);
    // Invoke the leading edge.
    return leading?
      invokeFunc(time) : result;
  }

  function remainingWait(time) {
    var timeSinceLastCall = time -
      timeLastInvoke = time - lastInvokeTime;
    // Either this is the first call, activity has stopped and we're at
      // trailing edge, the system time has gone backwards and we're treating
      // it as the trailing edge, or we've hit the 'maxWait' limit,
      return (lastInvokeTime >= undefined || (timeSinceLastCall) > maxWait) ||
    (timeSinceLastCall < 0) || (maxing & timeSinceLastInvoke >= maxWait));

  function shouldInvoke(time) {
    var timeSinceLastCall = time -
      timeSinceLastInvoke = time - lastInvokeTime;

    // Either this is the first call, activity has stopped and we're at
      // trailing edge, the system time has gone backwards and we're treating
      // it as the trailing edge, or we've hit the 'maxWait' limit,
      return (lastInvokeTime >= undefined || (timeSinceLastCall) > maxWait);
Mount: ReactMount,
    Reconciler: ReactReconciler
  });
}

if (process.env.NODE_ENV !== 'production') {
  var ExecutionEnvironment = require('fbjs/lib/ExecutionEnvironment');
  if (ExecutionEnvironment.canUseDOM && window.top === window.self) {
    // First check if devtools is not installed
    if (typeof __REACT_DEVTOOLS_GLOBAL_HOOK__ === 'undefined') {
      // If we're in Chrome or Firefox, provide a download link if not installed
      if (navigator.userAgent.indexOf('Chrome') > -1 &&
          navigator.userAgent.indexOf('Edge') === -1 || navigator.userAgent.indexOf('Firefox') > -1) {
        // Firefox does not have the issue with devtools loaded over file:///var showFileUrlMessage = window.location.protocol.indexOf('http') === -1 &&
          navigator.userAgent.indexOf('Firefox') === -1;
        console.debug('Download the React DevTools ' + (showFileUrlMessage ? 'and use an HTTP server (instead of a file:' : '') + ' URL) first for a better development experience: ' + 'https://fb.me/react-devtools');
      }
      var testFunc = function testFn() {};
      process.env.NODE_ENV !== 'production' ? warning((testFunc.name ||
        testFunc.toString()).indexOf('testFn') !== -1, "It looks like you're using a minified copy of the development build" + ' of React. When deploying React apps to production, make sure to use' + ' + the production build which skips development warnings and is faster.' + ' + See https://fb.me/react-minification for more details. :) void 0;\n      // If we're in IE8, check to see if we are in compatibility mode and provide
      // information on preventing compatibility mode
      var icompatibilityMode = document.documentMode &&
        document.documentMode < 8;\n      process.env.NODE_ENV !== 'production' ? warning(icompatibilityMode, 'Internet Explorer is running in
        // compatibility mode; please add the following tag to your HTML to prevent this from happening:
        + ' + '<meta http-equiv="X-UA-Compatible" content="IE=edge" />' + ' void 0;\n      var expectedFeatures = [\n        // shims
        Array.isArray, Array.prototype.every, Array.prototype.forEach, Array.prototype.indexOf,
        Date.now, Function.prototype.bind, Object.keys, String.prototype.trim\n      ];\n      for (var i = 0; i < expectedFeatures.length; ++i) {
        var expectedFeatures[i] \n          process.env.NODE_ENV !== 'production' ? warning(false, 'One or more ES5 shims expected by React are not available:' + ' + ' + 'https://fb.me/react-warning-polyfills') \n            void 0;\n        break;
      }\n      process.env.NODE_ENV !== 'production' ?
        ReactInstrumentation = require('./ReactInstrumentation');\n      var ReactDOMUnknownPropertyHook = require('./ReactDOMUnknownPropertyHook');\n      var ReactDOMNodeNullInputValuePropHook = require('./ReactDOMNullInputValuePropHook');\n      var ReactDOMInvalidARIAHook = require('./ReactDOMInvalidARIAHook');\n
      ReactInstrumentation.debugTool.addHook(ReactDOMUnknownPropertyHook);\n      ReactInstrumentation.debugTool.addHook(ReactDOMNodeNullInputValuePropHook);\n      ReactInstrumentation.debugTool.addHook(ReactDOMInvalidARIAHook);\n
      module.exports = ReactDOM;
  }

  ReactComponentBrowserEnvironment = require('./ReactComponentBrowserEnvironment');
  ReactDOMComponent = require('./ReactDOMComponent');
  ReactDOMComponentTree = require('./ReactDOMComponentTree');
  ReactDOMTextComponent = require('./ReactDOMTextComponent');
  ReactDefaultBatchingStrategy = require('./ReactDefaultBatchingStrategy');
  ReactEventInjection = require('./ReactEventInjection');
  ReactReconcileTransaction = require('./ReactReconcileTransaction');
  SVGDOMPropertyConfig = require('./SVGDOMPropertyConfig');

  BeforeInputEventPlugin = require('./BeforeInputEventPlugin');
  ChangeEventPlugin = require('./ChangeEventPlugin');
  DefaultEventPluginOrder = require('./DefaultEventPluginOrder');
  EnterLeaveEventPlugin = require('./EnterLeaveEventPlugin');
  HTMLDOMPropertyConfig = require('./HTMLDOMPropertyConfig');
  ReactComponentBrowserEnvironment = require('./ReactComponentBrowserEnvironment');
  ReactDOMComponent = require('./ReactDOMComponent');
  ReactDOMComponentTree = require('./ReactDOMComponentTree');
  ReactDOMEmptyComponent = require('./ReactDOMEmptyComponent');
  ReactDOMTreeTraversal = require('./ReactDOMTreeTraversal');
  ReactDOMTextComponent = require('./ReactDOMTextComponent');
  ReactDefaultBatchingStrategy = require('./ReactDefaultBatchingStrategy');
  ReactEventListener = require('./ReactEventListener');
  ReactInjection = require('./ReactInjection');
  ReactReconcileTransaction = require('./ReactReconcileTransaction');
  SVGDOMPropertyConfig = require('./SVGDOMPropertyConfig');
}

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SimpleEventPlugin = require('./SimpleEventPlugin');

var alreadyInjected = false;

function inject() {
  if (alreadyInjected) {
    // TODO: This is currently true because these injections are shared between
    // the client and the server package. They should be built independently
    // and not share any injection state. Then this problem will be solved.
    return;
  }
  alreadyInjected = true;

  ReactInjection.EventEmitter.injectReactEventListener(ReactEventListener);

  /**
   * Inject modules for resolving DOM hierarchy and plugin ordering.
   */

  ReactInjection.EventPluginHub.injectEventPluginOrder(DefaultEventPluginOrder);

  ReactInjection.EventPluginUtils.injectComponentTree(ReactDOMComponentTree);

  ReactInjection.EventPluginUtils.injectTreeTraversal(ReactDOMTreeTraversal);

  /**
   * Some important event plugins included by default (without having to require
   * them).
   */

  ReactInjection.EventPluginHub.injectEventPluginsByName({
    SimpleEventPlugin: SimpleEventPlugin,
    EnterLeaveEventPlugin: EnterLeaveEventPlugin,
    ChangeEventPlugin: ChangeEventPlugin,
    SelectEventPlugin: SelectEventPlugin,
    BeforeInputEventPlugin: BeforeInputEventPlugin
  });

  ReactInjection.HostComponent.injectGenericComponentClass(ReactDOMComponent);

  ReactInjection.HostComponent.injectTextComponentClass(ReactDOMTextComponent);

  ReactInjection.DOMProperty.injectDOMPropertyConfig(ARIADOMPropertyConfig);

  ReactInjection.DOMProperty.injectDOMPropertyConfig(HTMLDOMPropertyConfig);

  ReactInjection.DOMProperty.injectDOMPropertyConfig(SVGDOMPropertyConfig);

  ReactInjection.EmptyComponent.injectEmptyComponentFactory(function (instantiate) {
    return new ReactDOMEmptyComponent(instantiate);
  });

  ReactInjection.Updates.injectReconcileTransaction(ReactReconcileTransaction);

  ReactInjection.Updates.injectBatchingStrategy(ReactDefaultBatchingStrategy);

  ReactInjection.Component.injectEnvironment(ReactComponentBrowserEnvironment);

  module.exports = {
    inject: inject
  };
documentMode = null;

if (ExecutionEnvironment.canUseDOM && 'documentMode' in document) {
  documentMode = document.documentMode;
}

// Webkit offers a very useful `textInput` event that can be used
directly represent `beforeInput`. The IE `textinput` event is not as
useful, so we don't use it.

var useFallbackCompositionData = ExecutionEnvironment.canUseDOM &
  (canUseCompositionEvent || documentMode & documentMode > 8 &
  documentMode <= 11);

var SPACEBAR_CODE = 32;
var SPACEBAR_CHAR = String.fromCharCode(SPACEBAR_CODE);

// Events and their corresponding property
names.
var eventTypes = {
  beforeInput: {
    phasedRegistrationNames: {
      bubbled: 'onBeforeInput',
      captured: 'onBeforeInputCapture'
    },
    dependencies: ['topCompositionEnd', 'topKeyPress', 'topTextInput',
    'topPaste']
  },
  compositionEnd: {
    phasedRegistrationNames: {
      bubbled: 'onCompositionEnd',
      captured: 'onCompositionEndCapture'
    },
    dependencies: ['topBlur', 'topCompositionEnd', 'topKeyDown',
    'topKeyUp', 'topMouseUp']
  },
  compositionStart: {
    phasedRegistrationNames: {
      bubbled: 'onCompositionStart',
      captured: 'onCompositionStartCapture'
    },
    dependencies: ['topBlur', 'topCompositionStart', 'topKeyDown',
    'topKeyUp', 'topMouseUp']
  },
  compositionUpdate: {
    phasedRegistrationNames: {
      bubbled: 'onCompositionUpdate',
      captured: 'onCompositionUpdateCapture'
    },
    dependencies: ['topBlur', 'topCompositionUpdate', 'topKeyDown',
    'topKeyUp', 'topMouseUp']
  }
};

/**
 * Return whether a native keypress event is assumed to be a
 * command.
 */
function isKeypressCommand(nativeEvent) {
  return (nativeEvent.ctrlKey || nativeEvent.altKey ||
  nativeEvent.metaKey) &&
  !(nativeEvent.ctrlKey && nativeEvent.altKey);
}

/**
 * Track whether we've ever handled a keypress on the
 * space key.
 */
var hasSpaceKeypress = false;

/**
 * @param {string} topLevelType
 * @param {object} nativeEvent
 * @return {boolean}
 */
function isFallbackCompositionStart(topLevelType, nativeEvent) {
  return topLevelType === 'topKeyDown' && nativeEvent.keyCode ===
  START_KEYCODE;
}

/**
 * Does our fallback best-guess model think this event signifies that
 * composition has begun?
 */
function isFallbackCompositionEnd(topLevelType, nativeEvent) {
  switch (topLevelType) {
    case 'topKeyUp':
      // Command keys insert or clear IME input.
      return END_KEYCODES.indexOf(nativeEvent.keyCode) !== -1;
    case 'topKeyDown':
    case 'topKeyPress':
    case 'topMouseUp':
      // Events are not possible without cancelling IME.
      return true;
    default:
      return false;
  }
}

/**
 * Google Input Tools provides composition data via a CustomEvent,
 * with the 'data' property populated in the 'detail' object. If this
 * is available on the event object, use it. If not, this
 * is a plain composition event and we have nothing special to extract.
 */
function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail;
  }
}

// Track the current IME composition fallback object, if any.
var currentComposition = null;

/**
 * @return {?object} A SyntheticCompositionEvent.
 */
function extractCompositionEvent(topLevelType, targetInst, nativeEvent,
nativeEventTarget) {\n  var eventType;\n  var fallbackData;\n  if (canUseCompositionEvent) {\n    eventType = getCompositionEventType(topLevelType);\n  } else if (!currentComposition) {\n    if (isFallbackCompositionStart(topLevelType, nativeEvent)) {\n      eventType = eventTypes.compositionStart;\n    } else if (isFallbackCompositionEnd(topLevelType, nativeEvent)) {\n      eventType = eventTypes.compositionEnd;\n    }\n  }\n  if (eventType) {\n    return null;\n  } else if (useFallbackCompositionData) {\n    // The current composition is stored statically and must not be\n    // overwritten while composition continues.\n    if (!currentComposition && & eventType === eventTypes.compositionStart) {\n      currentComposition = FallbackCompositionState.getPooled(nativeEventTarget);\n    } else if (eventType === eventTypes.compositionEnd) {\n      fallbackData = currentComposition.getData();\n    }\n  }\n  var event = SyntheticCompositionEvent.getPooled(eventType,\n    targetInst, nativeEvent, nativeEventTarget);\n  if (fallbackData) {\n    // Inject data generated from fallback path\n    // into the synthetic event.\n    // This matches the property of native CompositionEventInterface.\n    event.data = fallbackData;\n  } else {\n    var customData = getDataFromCustomEvent(nativeEvent);\n    if (customData !== null) {\n      event.data = customData;\n    }\n  }\n  EventPropagators.accumulateTwoPhaseDispatches(event);\n  return event;\n}\n
/**\n * @param {string} topLevelType Record from `EventConstants`.
 * @param {object} nativeEvent Native browser event.
 * @return {?string} The string corresponding to this `beforeInput` event.
 */
function getNativeBeforeInputChars(topLevelType, nativeEvent) {\n  switch (topLevelType) {\n    case 'topCompositionEnd':\n      return getDataFromCustomEvent(nativeEvent);\n    case 'topKeyPress':\n      /**\n       * If native `textInput` events are available, our goal is to make\n       * use of them. However, there is a special case: the spacebar key.\n       * In Webkit, preventing default on a spacebar `textInput` event\n       * cancels character insertion, but it *also* causes the browser\n       * to fall back to its default spacebar behavior of scrolling the\n       * page.\n       * Tracking at:\n       * https://code.google.com/p/chromium/issues/detail?id=355103\n       */\n      var which = nativeEvent.which;\n      if (which !== SPACEBAR_CODE) {\n        return null;\n      }\n      hasSpaceKeypress = true;\n      return SPACEBAR_CHAR;\n    case 'topTextInput':\n      // Record the characters to be added to the\n      // DOM.\n      var chars = nativeEvent.data;\n      // If it's a spacebar character, assume that we have already\n      // handled it at the keypress level and bail immediately.\n      AndroidChrome() // doesn't give us keycodes, so\n      // we need to blacklist it.\n      if (chars === SPACEBAR_CHAR && hasSpaceKeypress) {\n        return null;\n      }\n      return chars;\n    default:\n      return null;\n  }\n}

/**\n * For browsers that do not provide the `textInput` event, extract the\n * appropriate string to use for\n * `beforeInput` events.\n */
function getFallbackBeforeInputChars(topLevelType, nativeEvent) {\n  // If we are currently composing (IME)\n  if (currentComposition) {\n    if (topLevelType === 'topCompositionEnd' || !canUseCompositionEvent\n      && isFallbackCompositionEnd(topLevelType, nativeEvent)) {\n      var chars = currentComposition.getData();\n      FallbackCompositionState.release(currentComposition);\n      currentComposition = null;\n      return chars;\n    }\n    if (currentComposition) {\n      if (topLevelType === 'topCompositionEnd' ||\n        !isFallbackCompositionEnd(topLevelType, nativeEvent)) {\n        var chars = currentComposition.getData();\n        FallbackCompositionState.release(currentComposition);\n        currentComposition = null;\n        return chars;\n      }\n      switch (topLevelType) {\n        case 'topPaste':\n          // If a paste event occurs after a keypress,\n          // throw out the input\n          // chars. Paste events should not lead to BeforeInput events.\n          return null;\n        case 'topKeyPress':\n          // As of v27, Firefox may fire keypress events even when no character\n          // will be inserted. A few possibilities:\n          * `\'\` which is `\'0`. Arrow keys, Esc key, etc.;\n          * `\'\` which is the pressed key code, but no character is available.\n          * Ex: `AltGr + d` in Polish. There is no modified character\n            for `\` this key combination and no character is inserted into the\n            document, but FF fires the keypress for char code `100` anyway.\n          * No `\input` event will occur.\n          * `\` which is the pressed key code,\n            but a command combination is\n            being used. Ex: `Cmd+`. No character is inserted, and no `\input`\n            event will occur.\n          return String.fromCharCode(nativeEvent.which);\n        }\n      }\n    }\n  }
useFallbackCompositionData ? null : nativeEvent.data;\n default:\n
return null;\n }\n}\n\n/**\n * Extract a
SyntheticInputEvent for `beforeInput`, based on either native\n * `textInput` or fallback behavior.\n *\n * @return
{?object} A SyntheticInputEvent.\n */\nfunction extractBeforeInputEvent(topLevelType, targetInst, nativeEvent,
nativeEventTarget) {\n var chars;\n\n if (canUseTextInputEvent) {\n chars =
getNativeBeforeInputChars(topLevelType, nativeEvent);\n } else {\n chars =
getFallbackBeforeInputChars(topLevelType, nativeEvent);\n }\n\n // If no characters are being inserted, no
BeforeInput event should\n // be fired.\n if (!chars) {\n return null;\n }\n\n var event =
SyntheticInputEvent.getPooled(eventTypes.beforeInput, targetInst, nativeEvent, nativeEventTarget);\n\n event.data
= chars;\n EventPropagators.accumulateTwoPhaseDispatches(event);\n return event;\n}\n\n/**\n * Create an
`onBeforeInput` event to match\n * http://www.w3.org/TR/2013/WD-DOM-Level-3-Events-20131105/#eventsinputevents.\n *\n * This event plugin is based on the native `textInput` event\n * available in Chrome, Safari,
Opera, and IE. This event fires after\n * `onKeyPress` and `onCompositionEnd`, but before `onInput`.\n *\n *
`beforeInput` is spec'd but not implemented in any browsers, and\n * the `input` event does not provide any useful
information about what has\n * actually been added, contrary to the spec. Thus, `textInput` is the best\n * available
event to identify the characters that have actually been inserted\n * into the target node.\n *\n * This plugin is also
responsible for emitting `composition` events, thus\n * allowing us to share composition fallback code for both
`beforeInput` and\n * `composition` event types.\n */\nvar BeforeInputEventPlugin = {\n eventTypes:
eventTypes,\n\n extractEvents: function (topLevelType, targetInst, nativeEvent, nativeEventTarget) {\n return
[extractCompositionEvent(topLevelType, targetInst, nativeEvent, nativeEventTarget),
extractBeforeInputEvent(topLevelType, targetInst, nativeEvent, nativeEventTarget)];\n }\n};\n\nmodule.exports =
BeforeInputEventPlugin;\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/reactdom/lib/BeforeInputEventPlugin.js\n// module id = 780\n// module chunks = 0","/**\n * Copyright (c) 2013-present,
Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root
directory of this source tree.\n *\n */\n\n'use strict';\n\nvar _assign = require('object-assign');\n\nvar PooledClass =
require('./PooledClass');\n\nvar getTextContentAccessor = require('./getTextContentAccessor');\n\n/**\n * This
helper class stores information about text content of a target node,\n * allowing comparison of content before and
after a given event.\n *\n * Identify the node where selection currently begins, then observe\n * both its text content
and its current position in the DOM. Since the\n * browser may natively replace the target node during composition,
we can\n * use its position to find its replacement.\n *\n * @param {DOMEventTarget} root\n */\nfunction
FallbackCompositionState(root) {\n this._root = root;\n this._startText = this.getText();\n this._fallbackText =
null;\n}\n\n_assign(FallbackCompositionState.prototype, {\n destructor: function () {\n this._root = null;\n
this._startText = null;\n this._fallbackText = null;\n },\n\n /**\n * Get current text of input.\n *\n * @return
{string}\n */\n getText: function () {\n if ('value' in this._root) {\n
return this._root.value;\n }\n return
this._root[getTextContentAccessor()];\n },\n\n /**\n * Determine the differing substring between the initially
stored\n * text content and the current content.\n *\n * @return {string}\n */\n getData: function () {\n if
(this._fallbackText) {\n
return this._fallbackText;\n }\n\n var start;\n var startValue = this._startText;\n
var startLength = startValue.length;\n var end;\n var endValue = this.getText();\n var endLength =
endValue.length;\n\n for (start = 0; start < startLength; start++) {\n
if (startValue[start] !== endValue[start]) {\n
break;\n
}\n }\n\n var minEnd = startLength - start;\n for (end = 1; end <= minEnd; end++) {\n
if
(startValue[startLength - end] !== endValue[endLength - end]) {\n
break;\n
}\n }\n\n var sliceTail = end
> 1 ? 1 - end : undefined;\n this._fallbackText = endValue.slice(start, sliceTail);\n return this._fallbackText;\n
}\n});\n\nPooledClass.addPoolingTo(FallbackCompositionState);\n\nmodule.exports =
FallbackCompositionState;\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/reactdom/lib/FallbackCompositionState.js\n// module id = 781\n// module chunks = 0","/**\n * Copyright (c) 2013present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in
the root directory of this source tree.\n *\n */\n\n'use strict';\n\nvar SyntheticEvent =
require('./SyntheticEvent');\n\n/**\n * @interface Event\n * @see http://www.w3.org/TR/DOM-Level-3Events/#events-compositionevents\n */\nvar CompositionEventInterface = {\n data: null\n};\n\n/**\n * @param

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{object} dispatchConfig Configuration used to dispatch this event.\n * @param {string} dispatchMarker Marker
identifying the event target.\n * @param {object} nativeEvent Native browser event.\n * @extends
{SyntheticUIEvent}\n */\nfunction SyntheticCompositionEvent(dispatchConfig, dispatchMarker, nativeEvent,
nativeEventTarget) {\n return SyntheticEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent,
nativeEventTarget);\n}\n\nSyntheticEvent.augmentClass(SyntheticCompositionEvent,
CompositionEventInterface);\n\nmodule.exports = SyntheticCompositionEvent;\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/react-dom/lib/SyntheticCompositionEvent.js\n// module id = 782\n// module chunks =
0","/**\n * Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license
found in the\n * LICENSE file in the root directory of this source tree.\n *\n */\n\n'use strict';\n\nvar SyntheticEvent
= require('./SyntheticEvent');\n\n/**\n * @interface Event\n * @see http://www.w3.org/TR/2013/WD-DOM-Level3-Events-20131105\n *
/#events-inputevents\n */\nvar InputEventInterface = {\n data: null\n};\n\n/**\n *
@param {object} dispatchConfig Configuration used to dispatch this event.\n * @param {string} dispatchMarker
Marker identifying the event target.\n * @param {object} nativeEvent Native browser event.\n * @extends
{SyntheticUIEvent}\n */\nfunction SyntheticInputEvent(dispatchConfig, dispatchMarker, nativeEvent,
nativeEventTarget) {\n return SyntheticEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent,
nativeEventTarget);\n}\n\nSyntheticEvent.augmentClass(SyntheticInputEvent,
InputEventInterface);\n\nmodule.exports = SyntheticInputEvent;\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/react-dom/lib/SyntheticInputEvent.js\n// module id = 783\n// module chunks = 0","/**\n *
Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n
* LICENSE file in the root directory of this source tree.\n *\n */\n\n'use strict';\n\nvar EventPluginHub =
require('./EventPluginHub');\nvar EventPropagators = require('./EventPropagators');\nvar ExecutionEnvironment =
require('fbjs/lib/ExecutionEnvironment');\nvar ReactDOMComponentTree =
require('./ReactDOMComponentTree');\nvar ReactUpdates = require('./ReactUpdates');\nvar SyntheticEvent =
require('./SyntheticEvent');\n\nvar inputValueTracking = require('./inputValueTracking');\nvar getEventTarget =
require('./getEventTarget');\nvar isEventSupported = require('./isEventSupported');\nvar isTextInputElement =
require('./isTextInputElement');\n\nvar eventTypes = {\n change: {\n phasedRegistrationNames: {\n
bubbled:
'onChange',\n
captured: 'onChangeCapture'\n },\n dependencies: ['topBlur', 'topChange', 'topClick', 'topFocus',
'topInput', 'topKeyDown', 'topKeyUp', 'topSelectionChange']\n }\n};\n\nfunction
createAndAccumulateChangeEvent(inst, nativeEvent, target) {\n var event =
SyntheticEvent.getPooled(eventTypes.change, inst, nativeEvent, target);\n event.type = 'change';\n
EventPropagators.accumulateTwoPhaseDispatches(event);\n return event;\n}\n/**\n * For IE shims\n */\nvar
activeElement = null;\nvar activeElementInst = null;\n\n/**\n * SECTION: handle `change` event\n */\nfunction
shouldUseChangeEvent(elem) {\n var nodeName = elem.nodeName && elem.nodeName.toLowerCase();\n return
nodeName === 'select' || nodeName === 'input' && elem.type === 'file';\n}\n\nvar doesChangeEventBubble =
false;\nif (ExecutionEnvironment.canUseDOM) {\n // See `handleChange` comment below\n
doesChangeEventBubble = isEventSupported('change') && (!document.documentMode || document.documentMode
> 8);\n}\n\nfunction manualDispatchChangeEvent(nativeEvent) {\n var event =
createAndAccumulateChangeEvent(activeElementInst, nativeEvent, getEventTarget(nativeEvent));\n\n // If change
and propertychange bubbled, we'd just bind to it like all the\n // other events and have it go through
ReactBrowserEventEmitter. Since it\n // doesn't, we manually listen for the events and so we have to enqueue and\n
// process the abstract event manually.\n //\n // Batching is necessary here in order to ensure that all event handlers
run\n // before the next rerender (including event handlers attached to ancestor\n // elements instead of directly on
the input). Without this, controlled\n // components don't work properly in conjunction with event bubbling
because\n // the component is rerendered and the value reverted before all the event\n // handlers can run. See
https://github.com/facebook/react/issues/708.\n ReactUpdates.batchedUpdates(runEventInBatch,
event);\n}\n\nfunction runEventInBatch(event) {\n EventPluginHub.enqueueEvents(event);\n
EventPluginHub.processEventQueue(false);\n}\n\nfunction startWatchingForChangeEventIE8(target, targetInst) {\n
activeElement = target;\n activeElementInst = targetInst;\n activeElement.attachEvent('onchange',

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function stopWatchingForChangeEventIE8() {
  if (!activeElement) {
    return;
  }
  activeElement.detachEvent('onchange', manualDispatchChangeEvent);
  activeElementInst = null;
}

function getInstIfValueChanged(targetInst, nativeEvent) {
  var updated = inputValueTracking.updateValueIfChanged(targetInst);
  var simulated = nativeEvent.simulated === true && ChangeEventPlugin._allowSimulatedPassThrough;
  if (updated || simulated) {
    return targetInst;
  }
}

function getTargetInstForChangeEvent(topLevelType, targetInst) {
  if (topLevelType === 'topChange') {
    return targetInst;
  }
}

function handleEventsForChangeEventIE8(topLevelType, target, targetInst) {
  if (topLevelType === 'topFocus') {
    // stopWatching() should be a noop here but we call it just in case we
    // missed a blur event somehow.
    stopWatchingForChangeEventIE8(target, targetInst);
  } else if (topLevelType === 'topBlur') {
    stopWatchingForChangeEventIE8(target, targetInst);
  }
}

function setInputValueSupported = false; /* SECTION: handle `input` event */

function startWatchingForValueChange(target, targetInst) {
  activeElement = target;
  activeElementInst = targetInst;
  activeElement.attachEvent('onpropertychange', handlePropertyChange);
}

function stopWatchingForValueChange() {
  if (!activeElement) {
    return;
  }
  activeElement.detachEvent('onpropertychange', handlePropertyChange);
  activeElement = null;
  activeElementInst = null;
}

function handlePropertyChange(nativeEvent) {
  if (nativeEvent.propertyName !== 'value') {
    return;
  }
  if (getInstIfValueChanged(activeElementInst, nativeEvent)) {
    manualDispatchChangeEvent(nativeEvent);
  }
}

function handleEventsForInputEventPolyfill(topLevelType, target, targetInst) {
  if (topLevelType === 'topFocus') {
    // In IE8, we can capture almost all value changes by adding an
    // propertychange handler and looking for events with propertyName.
    // In IE9, propertychange fires for most input events but is buggy and
    // doesn't fire when text is deleted, but conveniently, selectionchange
    // appears to fire in all of the remaining cases so we catch those and
    // forward the event if the value has changed.
    // In either case, we don't want to call the event handler if the value
    // is changed from JS so we redefine a setter for `.value` that
    // updates our activeElementValue variable, allowing us to ignore those changes
    // before the second keystroke). Other input methods (e.g., paste) seem to
    // fire selectionchange normally.
    return getInstIfValueChanged(activeElementInst, nativeEvent);
  }
}

function getTargetInstForClickEvent(topLevelType, targetInst, nativeEvent) {
  if (topLevelType === 'topClick') {
    return getInstIfValueChanged(targetInst, nativeEvent);
  }
}

function shouldUseClickEvent(elem) {
  // Use the `click` event to detect changes to checkbox and radio inputs.
  // This approach works across all browsers, whereas `change` does not
  // fire in IE8.
  var nodeName = elem.nodeName;
  return nodeName === 'input' && (elem.type === 'checkbox' || elem.type === 'radio');
}

function getTargetInstForClickEvent(topLevelType, targetInst, nativeEvent) {
  if (topLevelType === 'topClick') {
    return getInstIfValueChanged(targetInst, nativeEvent);
  }
}

/**
 * SECTION: handle `input` event
 */
getTargetInstForInputOrChangeEvent(topLevelType, targetInst, nativeEvent) { return getInstIfValueChanged(targetInst, nativeEvent); }

handleControlledInputBlur(inst, node) { // TODO: In IE, inst is occasionally null. Why?
  if (inst === null) { return; }

  if (isTextInputElement(node)) {
    handleControlledInputBlur(targetInst, node); // If controlled, assign the value attribute to the current value on blur
    var value = '' + node.value; // TODO: In IE, inst is occasionally null. Why?
    if (node.getAttribute('value') !== value) {
      node.setAttribute('value', value);
    }
  }
}

/**
 * This plugin creates an `onChange` event that normalizes change events on form elements. This event fires at a time when it's possible to change the element's value without seeing a flicker.
 * Supported elements are:
 * - input (see `isTextInputElement`)
 * - textarea
 * - select
 */
var ChangeEventPlugin = {
  eventTypes: eventTypes,

  _allowSimulatedPassThrough: true,
  _isInputEventSupported: isInputEventSupported,

  extractEvents: function (topLevelType, targetInst, nativeEvent, nativeEventTarget) {
    var targetNode = targetInst ? ReactDOMComponentTree.getNodeFromInstance(targetInst) : window;

    var getTargetInstFunc, handleEventFunc;
    if (shouldUseChangeEvent(targetNode)) {
      if (doesChangeEventBubble) {
        getTargetInstFunc = getTargetInstForChangeEvent;
      } else {
        handleEventFunc = handleEventsForChangeEventIE8;
      }
    } else if (isTextInputElement(targetNode)) {
      if (isInputEventSupported) {
        getTargetInstFunc = getTargetInstForInputOrChangeEvent;
      } else {
        getTargetInstFunc = getTargetInstForInputEventPolyfill;
        handleEventFunc = handleEventsForInputEventPolyfill;
      }
    } else if (shouldUseClickEvent(targetNode)) {
      getTargetInstFunc = getTargetInstForClickEvent;
    }

    if (getTargetInstFunc) {
      var inst = getTargetInstFunc(topLevelType, targetInst, nativeEvent);
      if (inst) {
        var event = createAndAccumulateChangeEvent(inst, nativeEvent, nativeEventTarget);
        return event;
      }
    }

    if (handleEventFunc) {
      handleEventFunc(topLevelType, targetNode, targetInst);
    }

    if (topLevelType === 'topBlur') {
      handleControlledInputBlur(targetInst, targetNode);
    }
  }
};

module.exports = ChangeEventPlugin;

function attachRef(ref, component, owner) {
  if (typeof ref === 'function') {
    ref(component.getPublicInstance());
  } else {
    ReactOwner.addComponentAsRefTo(component, ref, owner);
  }
}

function detachRef(ref, component, owner) {
  if (typeof ref === 'function') {
    ref(null);
  } else {
    ReactOwner.removeComponentAsRefFrom(component, ref, owner);
  }
}

ReactRef.shouldUpdateRefs = function (prevElement, nextElement) {
  var prevRef = null;
  var prevOwner = null;
  if (prevElement !== null && typeof prevElement === 'object') {
    prevRef = prevElement.ref;
    prevOwner = prevElement._owner;
  }

  var nextRef = null;
  var nextOwner = null;
  if (nextElement !== null && typeof nextElement === 'object') {
    nextRef = nextElement.ref;
    nextOwner = nextElement._owner;
  }

  return prevRef !== nextRef || (prevRef !== null && prevOwner !== nextOwner);
};

ReactRef.attachRefs = function (instance, element) {
  var ref = element.ref;
  if (ref != null) {
    attachRef(ref, instance, element._owner);
  }
  else {
    // Legacy ref
    ReactOwner.addComponentAsRefTo(component, ref, owner);
  }

  ReactOwner.shouldUpdateRefs = function (prevElement, nextElement) { // If either the owner or a 'ref' has changed, make sure the newest owner has stored a reference to 'this', and the previous owner (if different) has forgotten the reference to 'this'. We use the element instead of the public this.props because the post processing cannot determine a ref. The ref conceptually lives on the element. // TODO: Should this even be possible? The owner cannot change because it's forbidden by shouldUpdateReactComponent. The ref can change only if you swap the keys of but not the refs. Reconsider where this check is made. It probably belongs where the key checking and instantiateReactComponent is done. var prevRef = null; var prevOwner = null; if (prevElement !== null && typeof prevElement === 'object') { prevRef = prevElement.ref; prevOwner = prevElement._owner; } var nextRef = null; var nextOwner = null; if (nextElement !== null && typeof nextElement === 'object') { nextRef = nextElement.ref; nextOwner = nextElement._owner; } return prevRef !== nextRef || (prevRef !== null && prevOwner !== nextOwner); }

  ReactRef.detachRefs = function (instance, element) {
    var ref = element.ref;
    if (ref !== null) { ReactOwner.removeComponentAsRefFrom(component, ref, owner); }

    // If owner changes but we have an unchanged function ref, don't update refs
    if (typeof nextRef === 'string' && nextOwner !== prevOwner) { ReactOwner.removeComponentAsRefFrom(component, ref, owner); }
  }

  return ReactRef.attachRefs(instance, element);
};

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(instance, element) {\n  if (element === null || typeof element !== 'object') {\n    return;\n  }\n  var ref = element.ref;\n  if (ref !== null) {\n    detachRef(ref, instance, element._owner);\n  }\n}\n
module.exports = ReactRef;\n\n
//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/ReactRef.js
// module id = 785\nmodule chunks = 0, **\n
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.\n */\n
var exports = require('fbjs/lib/invariant');\n
/**
 * @param {?object} object\n * @return {boolean} True if `object` is a valid owner.\n * @final\n */\nfunction isValidOwner(object) {\n  return !!(object && typeof object.attachRef === 'function' && typeof object.detachRef === 'function');\n}\n
/**
 * ReactOwners are capable of storing references to owned components.\n * All components are capable of being referenced by owner components, but only ReactOwner components are capable of referencing owned components. The named reference is known as a `ref`.\n * Refs are available when mounted and updated during reconciliation.\n */\nvar ReactOwner = {\n  /**
   * Adds a component by ref to an owner component.\n   *
   * @param {ReactComponent} component Component to reference.\n   * @param {string} ref Name by which to refer to the component.\n   * @param {ReactOwner} owner Component on which to record the ref.\n   * @final\n   * @internal\n   */\n  addComponentAsRefTo: function (component, ref, owner) {\n    !isValidOwner(owner) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'addComponentAsRefTo(...): Only a ReactOwner can have refs. You might be adding a ref to a component that was not created inside a component\'s `render` method, or you have multiple copies of React loaded (details: https://fb.me/react-refs-must-have-owner).') : _prodInvariant('119') : void 0;\n    owner.attachRef(ref, component);\n  },\n
  /**
   * Removes a component by ref from an owner component.\n   *
   * @param {ReactComponent} component Component to dereference.\n   * @param {string} ref Name of the ref to remove.\n   * @param {ReactOwner} owner Component on which the ref is recorded.\n   * @final\n   * @internal\n   */\n  removeComponentAsRefFrom: function (component, ref, owner) {\n    !isValidOwner(owner) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'removeComponentAsRefFrom(...): Only a ReactOwner can have refs. You might be removing a ref to a component that was not created inside a component\'s `render` method, or you have multiple copies of React loaded (details: https://fb.me/react-refs-must-have-owner).') : _prodInvariant('120') : void 0;\n    var ownerPublicInstance = owner.getPublicInstance();\n    // Check that `component`'s owner is still alive and that `component` is still the current ref\n    // because we do not want to detach the ref if another component stole it.\n    if (ownerPublicInstance && ownerPublicInstance.refs[ref] !== component.getPublicInstance()) {\n      owner.detachRef(ref, owner);\n    }\n\n    module.exports = ReactOwner;\n\n    // WEBPACK FOOTER
    // node_modules/react-dom/lib/ReactOwner.js\n    module id = 786\n    module chunks = 0, **
  }

  /**
   * Module that is injectable into `EventPluginHub`, that specifies a deterministic ordering of `EventPlugin`s. A convenient way to reason about plugins, without having to package every one of them. This is better than having plugins be ordered in the same order that they are injected before `SimpleEventPlugin` handlers.\n   * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.\n   */\n
  /**
   * @param {EventPlugin} plugin\n   * @return {boolean} True if `plugin` is injectable into `EventPluginHub`, that specifies\n   * a deterministic ordering of `EventPlugin`s. A convenient way to reason about\n   * plugins, without having to package every one of them. This is better than having plugins be ordered in the same order that they are injected because\n   * that ordering would be influenced by the packaging order.\n   * `ResponderEventPlugin` must occur before `SimpleEventPlugin` so that\n   */

  DefaultEventPluginOrder = ['ResponderEventPlugin', 'SimpleEventPlugin', 'TapEventPlugin', 'EnterLeaveEventPlugin', 'ChangeEventPlugin', 'SelectEventPlugin', 'BeforeInputEventPlugin'];\n  module.exports = DefaultEventPluginOrder;\n\n  // WEBPACK FOOTER
  // node_modules/react-dom/lib/DefaultEventPluginOrder.js\n  module id = 787\n  module chunks = 0, **
  
}
the root directory of this source tree.

```javascript
'use strict';

var EventPropagators = require('./EventPropagators');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var SyntheticMouseEvent = require('./SyntheticMouseEvent');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');

var eventTypes = {
  mouseEnter: {
    registrationName: 'onMouseEnter',
    dependencies: ['topMouseOut', 'topMouseOver']
  },
  mouseLeave: {
    registrationName: 'onMouseLeave',
    dependencies: ['topMouseOut', 'topMouseOver']
  }
};

var EnterLeaveEventPlugin = {
  eventTypes: eventTypes,

  /**
   * For almost every interaction we care about,
   * there will be both a top-level 'mouseover' and 'mouseout' event that occurs.
   * Only use 'mouseout' so that we do not extract duplicate events. However, moving
   * the mouse into the element browser from outside will not fire a 'mouseout' event.
   * In this case, we use the 'mouseover' top-level event.
   */
  extractEvents: function(topLevelType, targetInst, nativeEvent, nativeEventTarget) {
    if (topLevelType === 'topMouseOver' &&
      (nativeEvent.relatedTarget || nativeEvent.toElement)) {
      return null;
    }
    if (topLevelType !== 'topMouseOut' && topLevelType !== 'topMouseOver') {
      // Nothing pertains to our managed components.
      return null;
    }

    var win;
    if (nativeEventTarget && !nativeEventTarget.ownerDocument) {
      win = nativeEventTarget.ownerDocument;
    } else {
      win = document;
    }

    var from;
    var to;
    if (topLevelType === 'topMouseOut') {
      from = targetInst;
      var related = nativeEvent.relatedTarget || nativeEvent.toElement;
      to = related ? ReactDOMComponentTree.getClosestInstanceFromNode(related) : null;
    } else {
      from = null;
      to = targetInst;
    }

    if (from === to) {
      return null;
    }

    var fromNode = from == null ? win : ReactDOMComponentTree.getNodeFromInstance(from);
    var toNode = to == null ? win : ReactDOMComponentTree.getNodeFromInstance(to);

    var leave = SyntheticMouseEvent.getPooled(eventTypes.mouseLeave, from, nativeEvent, nativeEventTarget);
    leave.type = 'mouseleave';
    leave.target = fromNode;
    leave.relatedTarget = toNode;

    var enter = SyntheticMouseEvent.getPooled(eventTypes.mouseEnter, to, nativeEvent, nativeEventTarget);
    enter.type = 'mouseenter';
    enter.target = toNode;
    enter.relatedTarget = fromNode;

    EventPropagators.accumulateEnterLeaveDispatches(leave, enter, from, to);

    return [leave, enter];
  }
};

module.exports = EnterLeaveEventPlugin;
```

```
/*
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 *
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var DOMProperty = require('./DOMProperty');

var MUST_USE_PROPERTY = DOMProperty.injection.MUST_USE_PROPERTY;
var HAS_BOOLEAN_VALUE = DOMProperty.injection.HAS_BOOLEAN_VALUE;
var HAS_NUMERIC_VALUE = DOMProperty.injection.HAS_NUMERIC_VALUE;
var HAS_POSITIVE_NUMERIC_VALUE = DOMProperty.injection.HAS_POSITIVE_NUMERIC_VALUE;
var HAS_OVERLOADED_BOOLEAN_VALUE = DOMProperty.injection.HAS_OVERLOADED_BOOLEAN_VALUE;
var HTMLDOMPropertyConfig = {
  isCustomAttribute: RegExp.prototype.test.bind(new RegExp('^' + DOMProperty.ATTRIBUTE_NAME_CHAR + '[^\s]*$')),
  Properties: {
    accept: MUST_USE_PROPERTY
  }
};
```

---

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`<object />` acts as `src`.

defer:

HAS_BOOLEAN_VALUE,
dir: 0,
disabled: HAS_BOOLEAN_VALUE,
download:

HAS_UNDERSCORE_BOOLEAN_VALUE,
draggable: 0,
decType: 0,
form: 0,
formAction: 0,
formEncType: 0,
formMethod: 0,
formNoValidate: HAS_BOOLEAN_VALUE,
formTarget: 0,
frameBorder: 0,
headers: 0,
hidden: HAS_BOOLEAN_VALUE,
href: 0,
hrefLang: 0,
httpFor: 0,
httpEquiv: 0,
icon: 0,
id: 0,
inputMode: 0,
integrity: 0,
is: 0,
keyParams: 0,
keyType: 0,
kind: 0,
label: 0,
lang: 0,
list: 0,
loop:

HAS_BOOLEAN_VALUE,
low: 0,
manifest: 0,
marginHeight: 0,
marginWidth: 0,
max: 0,
maxLength: 0,
media: 0,
mediaGroup: 0,
method: 0,
min: 0,
minLength: 0,
open:

HAS_BOOLEAN_VALUE,
optimum: 0,
pattern: 0,
placeholder: 0,
playsInline:

HAS_BOOLEAN_VALUE,
poster: 0,
preload: 0,
profile: 0,
radioGroup: 0,
readOnly:

HAS_BOOLEAN_VALUE,
referrerPolicy: 0,
rel: 0,
required: HAS_BOOLEAN_VALUE,
reversed:

HAS_BOOLEAN_VALUE,
role: 0,
rows: HAS_POSITIVE_NUMERIC_VALUE,
scope:

HAS_BOOLEAN_VALUE,
sandbox: 0,
scope: 0,
scoped: HAS_BOOLEAN_VALUE,
scrolling:

HAS_BOOLEAN_VALUE,
seamless: HAS_BOOLEAN_VALUE,
selected: MUST_USE_PROPERTY |

HAS_BOOLEAN_VALUE,
shape: 0,
sizes: HAS_POSITIVE_NUMERIC_VALUE,
sources: 0,
spellcheck: 0,
src: 0,
srcDoc: 0,
srcLang: 0,
srcSet: 0,
start:

HAS_NUMERIC_VALUE,
step: 0,
style: 0,
summary: 0,
tabIndex: 0,
target: 0,
title:

0,

// Setting .type throws on non-<input> tags.
type: 0,
useMap: 0,
value: 0,
width: 0,
wmode:

0,

wrap: 0,
/** * RDFa Properties *

has about: 0,
datatype: 0,
linlist: 0,
prefix: 0,
property: 0,
resource: 0,
type: 0,
vocab:

0,

*** * Non-standard Properties *

autoCapitalize and autoCorrect are supported in Mobile Safari for:

keyboard.hints:

autoCapitalize:

autoCorrect:

autoSave:

autoSave:

color: 0,
itemProp: 0,
itemScope: HAS_BOOLEAN_VALUE,
itemType: 0,
itemID: 0,
itemRef: 0,
results:

show looking glass icon and recent searches on input:

search fields in WebKit/Blink:

results:

IE-only attribute that specifies security restrictions on an iframes:

as an alternative to the sandbox attribute on IE<10:

security:

IE-only attribute that controls focus behavior:

unsellactable: 0

DOMAttributeNames: {

acceptCharset: 'accept-charset',
className: 'class',
htmlFor: 'for',
httpEquiv: 'http-equiv',
DOMPropertyNames: {},
DOMMutationMethods: {

value: function (node, value) {

if (value == null) {

node.removeAttribute('value');

} else if (node.type === 'number' ||

node.set('value', '' + value);

} else if (node.validity &&

node.value &&

node.ownerDocument.activeElement !== node) {

// Don't assign an attribute if validation reports bad:

input.

Chrome will clear the value.

Additionally, don't operate on inputs that have focus, otherwise Chrome might do some other things and cause the user's position to jump to the beginning of the input.

In ReactDOMInput, we have an onBlur event that will trigger this function again when focus is lost.

node.set('value', '' + value);

module.exports = HTMLDOMPropertyConfig;

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* LICENSE file in the root directory of this source tree. 
* * *

var DOMChildrenOperations = require('./DOMChildrenOperations'); 
var ReactDOMOperations = require('./ReactDOMOperations');

* Abstracts away all functionality of the reconciler that requires knowledge of
* the browser context. TODO: These callers should be refactored to avoid the
* need for this injection.

ReactComponentBrowserEnvironment = {
  processChildUpdates: DOMChildrenOperations.dangerouslyProcessChildUpdates,
  replaceNodeWithMarkup: ReactDOMOperations.dangerouslyReplaceNodeWithMarkup,
};

module.exports = ReactComponentBrowserEnvironment;


/* */

/* */

(function () {
  'use strict';

  var DOMLazyTree = require('./DOMLazyTree');
  var ExecutionEnvironment = require('fbjs/lib/ExecutionEnvironment');

  var createNodesFromMarkup = require('fbjs/lib/createNodesFromMarkup');
  var emptyFunction = require('fbjs/lib/emptyFunction');
  var invariant = require('fbjs/lib/invariant');

  var Danger = {
    /**
     * Replaces a node with a string of markup at its current
     * position within its parent. The markup must render into a single root node.
     *
     * @param {DOMElement} oldChild Child node to replace.
     * @param {string} markup Markup to render in place of the child node.
     * @internal
     */
    dangerouslyReplaceNodeWithMarkup: function (oldChild, markup) {
      if (oldChild.nodeName !== 'HTML') {
        throw new Error('dangerouslyReplaceNodeWithMarkup(...): Cannot replace markup of the <html> node. This is because browser quirks make this unreliable and/or slow. If you want to render to the root you must use server rendering. See ReactDOMServer.renderToString().');
      }

      if (typeof markup === 'string') {
        var newChild = createNodesFromMarkup(markup, emptyFunction)[0];
        oldChild.parentNode.replaceChild(newChild, oldChild);
      } else {
        DOMLazyTree.replaceChildWithTree(oldChild, markup);
      }
    }
  };

  module.exports = Danger;
})();
null

if (process.env.NODE_ENV !== 'production') {
  process.env.NODE_ENV !== 'production' ? warning(props.innerHTML == null, 'Directly setting property `innerHTML` is not permitted.' + 'For more information, lookup documentation on `dangerouslySetInnerHTML`.') : void 0

  // IE8 has no API for event capturing and the `onScroll` event doesn't bubble.
  process.env.NODE_ENV !== 'production' ? warning(registrationName !== 'onScroll' || isEventSupported('scroll', true), 'This browser doesn’t support the `onScroll` event') : void 0

  var containerInfo = inst._hostContainerInfo;
  var isDocumentFragment = containerInfo._node && containerInfo._node.nodeType === DOC_FRAGMENT_TYPE;
  var doc = isDocumentFragment ? containerInfo._node : containerInfo._ownerDocument;

  listenTo(registrationName, doc);
  transaction.getReactMountReady().enqueue(putListener, {
    inst: inst,
    registrationName: registrationName,
    listener: listener
  });
}

function putListener() {
  var listenerToPut = this;
  EventPluginHub.putListener(listenerToPut.inst, listenerToPut.registrationName, listenerToPut.listener);
}

function inputPostMount() {
  var inst = this;
  ReactDOMInput.postMountWrapper(inst);
}

function textareaPostMount() {
  var inst = this;
  ReactDOMTextarea.postMountWrapper(inst);
}

function optionPostMount() {
  var inst = this;
  ReactDOMOption.postMountWrapper(inst);
}

setAndValidateContentChildDev = emptyFunction;
if (process.env.NODE_ENV !== 'production') {
  setAndValidateContentChildDev = function (content) {
    var hasExistingContent = this._contentDebugID != null;
    var debugID = this._debugID;
    // This ID represents the inlined child that has no backing instance:
    var contentDebugID = -debugID;

    if (content == null) {
      if (hasExistingContent) {
        ReactInstrumentation.debugTool.onUnmountComponent(this._contentDebugID);
      }
      this._contentDebugID = null;
      return;
    }

    validateDOMNesting(null, String(content), this, this._ancestorInfo);
    this._contentDebugID = contentDebugID;
    if (hasExistingContent) {
      ReactInstrumentation.debugTool.onBeforeUpdateComponent(contentDebugID, content);
      ReactInstrumentation.debugTool.onUpdateComponent(contentDebugID, content);
    } else {
      ReactInstrumentation.debugTool.onBeforeUpdateComponent(null, content); // component mount
      ReactInstrumentation.debugTool.onMountComponent(contentDebugID);
    }
  };
}
process.env.NODE_ENV !== 'production' ? invariant(false, 'Must be mounted to trap events') : _prodInvariant('63') :
void 0;\n var node = getNode(inst);\n !node ? process.env.NODE_ENV !== 'production' ? invariant(false,
'trapBubbledEvent(...): Requires node to be rendered.') : _prodInvariant('64') : void 0;\n\n switch (inst._tag) {\n
case 'iframe':\n case 'object':\n
inst._wrapperState.listeners =
[ReactBrowserEventEmitter.trapBubbledEvent('topLoad', 'load', node)];\n
break;\n case 'video':\n case
'audio':\n
inst._wrapperState.listeners = [];\n
// Create listener for each media event\n
for (var event in
mediaEvents) {\n
if (mediaEvents.hasOwnProperty(event)) {\n
inst._wrapperState.listeners.push(ReactBrowserEventEmitter.trapBubbledEvent(event, mediaEvents[event],
node));\n
}\n
}\n
break;\n case 'source':\n
inst._wrapperState.listeners =
[ReactBrowserEventEmitter.trapBubbledEvent('topError', 'error', node)];\n
break;\n case 'img':\n
inst._wrapperState.listeners = [ReactBrowserEventEmitter.trapBubbledEvent('topError', 'error', node),
ReactBrowserEventEmitter.trapBubbledEvent('topLoad', 'load', node)];\n
break;\n case 'form':\n
inst._wrapperState.listeners = [ReactBrowserEventEmitter.trapBubbledEvent('topReset', 'reset', node),
ReactBrowserEventEmitter.trapBubbledEvent('topSubmit', 'submit', node)];\n
break;\n case 'input':\n case
'select':\n case 'textarea':\n
inst._wrapperState.listeners =
[ReactBrowserEventEmitter.trapBubbledEvent('topInvalid', 'invalid', node)];\n
break;\n }\n}\n\nfunction
postUpdateSelectWrapper() {\n ReactDOMSelect.postUpdateWrapper(this);\n}\n\n// For HTML, certain tags
should omit their close tag. We keep a whitelist for\n// those special-case tags.\n\nvar omittedCloseTags = {\n area:
true,\n base: true,\n br: true,\n col: true,\n embed: true,\n hr: true,\n img: true,\n input: true,\n keygen: true,\n
link: true,\n meta: true,\n param: true,\n source: true,\n track: true,\n wbr: true\n // NOTE: menuitem's close tag
should be omitted, but that causes problems.\n};\n\nvar newlineEatingTags = {\n listing: true,\n pre: true,\n
textarea: true\n};\n\n// For HTML, certain tags cannot have children. This has the same purpose as\n//
`omittedCloseTags` except that `menuitem` should still have its closing tag.\n\nvar voidElementTags = _assign({\n
menuitem: true\n}, omittedCloseTags);\n\n// We accept any tag to be rendered but since this gets injected into
arbitrary\n// HTML, we want to make sure that it's a safe tag.\n// http://www.w3.org/TR/REC-xml/#NTName\n\nvar VALID_TAG_REGEX = /^[a-zA-Z][a-zA-Z:_\\.\\-\\d]*$/; // Simplified subset\nvar
validatedTagCache = {};\nvar hasOwnProperty = {}.hasOwnProperty;\n\nfunction validateDangerousTag(tag) {\n
if (!hasOwnProperty.call(validatedTagCache, tag)) {\n !VALID_TAG_REGEX.test(tag) ?
process.env.NODE_ENV !== 'production' ? invariant(false, 'Invalid tag: %s', tag) : _prodInvariant('65', tag) : void
0;\n validatedTagCache[tag] = true;\n }\n}\n\nfunction isCustomComponent(tagName, props) {\n return
tagName.indexOf('-') >= 0 || props.is != null;\n}\n\nvar globalIdCounter = 1;\n\n/**\n * Creates a new React class
that is idempotent and capable of containing other\n * React components. It accepts event listeners and DOM
properties that are\n * valid according to `DOMProperty`.\n *\n * - Event listeners: `onClick`, `onMouseDown`,
etc.\n * - DOM properties: `className`, `name`, `title`, etc.\n *\n * The `style` property functions differently from
the DOM API. It accepts an\n * object mapping of style properties to values.\n *\n * @constructor
ReactDOMComponent\n * @extends ReactMultiChild\n */\nfunction ReactDOMComponent(element) {\n var tag
= element.type;\n validateDangerousTag(tag);\n this._currentElement = element;\n this._tag =
tag.toLowerCase();\n this._namespaceURI = null;\n this._renderedChildren = null;\n this._previousStyle = null;\n
this._previousStyleCopy = null;\n this._hostNode = null;\n this._hostParent = null;\n this._rootNodeID = 0;\n
this._domID = 0;\n this._hostContainerInfo = null;\n this._wrapperState = null;\n this._topLevelWrapper = null;\n
this._flags = 0;\n if (process.env.NODE_ENV !== 'production') {\n this._ancestorInfo = null;\n
setAndValidateContentChildDev.call(this, null);\n }\n}\n\nReactDOMComponent.displayName =
'ReactDOMComponent';\n\nReactDOMComponent.Mixin = {\n /**\n * Generates root tag markup then recurses.
This method has side effects and\n * is not idempotent.\n *\n * @internal\n * @param
{ReactReconcileTransaction|ReactServerRenderingTransaction} transaction\n * @param
{?ReactDOMComponent} the parent component instance\n * @param {?object} info about the host container\n *
@param {object} context\n * @return {string} The computed markup.\n */\n mountComponent: function
(transaction, hostParent, hostContainerInfo, context) {\n this._rootNodeID = globalIdCounter++;\n this._domID

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= hostContainerInfo._idCounter++;\n this._hostParent = hostParent;\n this._hostContainerInfo =
hostContainerInfo;\n\n var props = this._currentElement.props;\n\n switch (this._tag) {\n
case 'audio':\n
case 'form':\n
case 'iframe':\n
case 'img':\n
case 'link':\n
case 'object':\n
case 'source':\n
case
'video':\n
this._wrapperState = {\n
listeners: null\n
};\n
transaction.getReactMountReady().enqueue(trapBubbledEventsLocal, this);\n
break;\n
case 'input':\n
ReactDOMInput.mountWrapper(this, props, hostParent);\n
props = ReactDOMInput.getHostProps(this,
props);\n
transaction.getReactMountReady().enqueue(trackInputValue, this);\n
transaction.getReactMountReady().enqueue(trapBubbledEventsLocal, this);\n
break;\n
case 'option':\n
ReactDOMOption.mountWrapper(this, props, hostParent);\n
props = ReactDOMOption.getHostProps(this,
props);\n
break;\n
case 'select':\n
ReactDOMSelect.mountWrapper(this, props, hostParent);\n
props
= ReactDOMSelect.getHostProps(this, props);\n
transaction.getReactMountReady().enqueue(trapBubbledEventsLocal, this);\n
break;\n
case 'textarea':\n
ReactDOMTextarea.mountWrapper(this, props, hostParent);\n
props = ReactDOMTextarea.getHostProps(this,
props);\n
transaction.getReactMountReady().enqueue(trackInputValue, this);\n
transaction.getReactMountReady().enqueue(trapBubbledEventsLocal, this);\n
break;\n }\n\n
assertValidProps(this, props);\n\n // We create tags in the namespace of their parent container, except HTML\n //
tags get no namespace.\n var namespaceURI;\n var parentTag;\n if (hostParent != null) {\n
namespaceURI
= hostParent._namespaceURI;\n
parentTag = hostParent._tag;\n } else if (hostContainerInfo._tag) {\n
namespaceURI = hostContainerInfo._namespaceURI;\n
parentTag = hostContainerInfo._tag;\n }\n if
(namespaceURI == null || namespaceURI === DOMNamespaces.svg && parentTag === 'foreignobject') {\n
namespaceURI = DOMNamespaces.html;\n }\n if (namespaceURI === DOMNamespaces.html) {\n
if
(this._tag === 'svg') {\n
namespaceURI = DOMNamespaces.svg;\n
} else if (this._tag === 'math') {\n
namespaceURI = DOMNamespaces.mathml;\n
}\n }\n this._namespaceURI = namespaceURI;\n\n if
(process.env.NODE_ENV !== 'production') {\n
var parentInfo;\n
if (hostParent != null) {\n
parentInfo =
hostParent._ancestorInfo;\n
} else if (hostContainerInfo._tag) {\n
parentInfo =
hostContainerInfo._ancestorInfo;\n
}\n
if (parentInfo) {\n
// parentInfo should always be present except
for the top-level\n
// component when server rendering\n
validateDOMNesting(this._tag, null, this,
parentInfo);\n
}\n
this._ancestorInfo = validateDOMNesting.updatedAncestorInfo(parentInfo, this._tag,
this);\n }\n\n var mountImage;\n if (transaction.useCreateElement) {\n
var ownerDocument =
hostContainerInfo._ownerDocument;\n var el;\n
if (namespaceURI === DOMNamespaces.html) {\n
if
(this._tag === 'script') {\n
// Create the script via .innerHTML so its \"parser-inserted\" flag is\n
// set to
true and it does not execute\n
var div = ownerDocument.createElement('div');\n
var type =
this._currentElement.type;\n
div.innerHTML = '<' + type + '></' + type + '>';\n
el =
div.removeChild(div.firstChild);\n
} else if (props.is) {\n
el =
ownerDocument.createElement(this._currentElement.type, props.is);\n
} else {\n
// Separate else branch
instead of using `props.is || undefined` above becuase of a Firefox bug.\n
// See discussion in
https://github.com/facebook/react/pull/6896\n
// and discussion in
https://bugzilla.mozilla.org/show_bug.cgi?id=1276240\n
el =
ownerDocument.createElement(this._currentElement.type);\n
}\n
} else {\n
el =
ownerDocument.createElementNS(namespaceURI, this._currentElement.type);\n
}\n
ReactDOMComponentTree.precacheNode(this, el);\n
this._flags |= Flags.hasCachedChildNodes;\n if
(!this._hostParent) {\n
DOMPropertyOperations.setAttributeForRoot(el);\n
}\n
this._updateDOMProperties(null, props, transaction);\n
var lazyTree = DOMLazyTree(el);\n
this._createInitialChildren(transaction, props, context, lazyTree);\n
mountImage = lazyTree;\n } else {\n
var
tagOpen = this._createOpenTagMarkupAndPutListeners(transaction, props);\n
var tagContent =
this._createContentMarkup(transaction, props, context);\n
if (!tagContent && omittedCloseTags[this._tag]) {\n
mountImage = tagOpen + '/>';\n
} else {\n
mountImage = tagOpen + '>' + tagContent + '</' +
this._currentElement.type + '>';\n
}\n }\n\n switch (this._tag) {\n
case 'input':\n

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transaction.getReactMountReady().enqueue(inputPostMount, this);
        if (props.autoFocus) {
          return mountImage;
        }
      }

      case 'textarea':
      transaction.getReactMountReady().enqueue(textareaPostMount, this);
      if (props.autoFocus) {
        transaction.getReactMountReady().enqueue(AutoFocusUtils.focusDOMComponent, this);
      }
      break;
    }
  },

  /**
   * Creates markup for the open tag and all attributes.
   *
   * This method has side effects because events get registered.
   * Iterating over object properties is faster than iterating over arrays.
   */
  _createOpenTagMarkupAndPutListeners: function (transaction, props) {
    var ret = '<' + this._currentElement.type;

    for (var propKey in props) {
      if (!props.hasOwnProperty(propKey)) {
        continue;
      }
      var propValue = props[propKey];
      if (propValue == null) {
        continue;
      }
      if (registrationNameModules.hasOwnProperty(propKey)) {
        if (propValue) {
          enqueuePutListener(this, propKey, propValue, transaction);
        }
      } else {
        if (propKey === STYLE) {
          if (propValue) {
            if (process.env.NODE_ENV !== 'production') {
              this._previousStyle = propValue;
            }
            propValue = this._previousStyleCopy = _assign({}, props.style);
          }
          propValue = CSSPropertyOperations.createMarkupForStyles(propValue, this);
        }
        var markup = null;
        if (this._tag != null && isCustomComponent(this._tag, props)) {
          if (!RESERVED_PROPS.hasOwnProperty(propKey)) {
            markup = DOMPropertyOperations.createMarkupForCustomAttribute(propKey, propValue);
          }
        } else {
          markup = DOMPropertyOperations.createMarkupForProperty(propKey, propValue);
        }
        if (markup) {
          ret += ' ' + markup;
        }
      }
    }

    // For static pages, no need to put React ID and checksum. Saves
    // lots of bytes.
    if (transaction.renderToStaticMarkup) {
      return ret;
    }

    if (!this._hostParent) {
      ret += ' ' + DOMPropertyOperations.createMarkupForRoot();
    }
    ret += ' ' + DOMPropertyOperations.createMarkupForID(this._domID);
    return ret;
  },

  /**
   * Creates markup for the content between the tags.
   *
   */
  _createContentMarkup: function (transaction, props, context) {
    var ret = '';

    var innerHTML = props.dangerouslySetInnerHTML;
    if (innerHTML != null) {
      if (innerHTML.__html != null) {
        ret = innerHTML.__html;
      }
    } else {
      var contentToUse = CONTENT_TYPES[typeof props.children] ? props.children : null;
      var childrenToUse = contentToUse != null ? null : props.children;

      if (contentToUse != null) {
        // TODO: Validate that text is allowed as a child of this node
        ret = escapeTextContentForBrowser(contentToUse);
        if (process.env.NODE_ENV !== 'production') {
          setAndValidateContentChildDev.call(this, contentToUse);
        } else if (childrenToUse != null) {
          var mountImages = this.mountChildren(childrenToUse, transaction, context);
          ret = mountImages.join('');
        } else if (newlineEatingTags[this._tag] &amp;&amp; ret.charAt(0) === '\n') {
          // textarea ignores the first character in these tags if it's a newline
          // Prefer to break application/xml over text/html (for now) by adding a
          // newline specifically to get eaten by the parser. (Alternately for textarea, replacing \n with \n doesn't get eaten, and the first \n is normalized out by HTMLTextAreaElement#value.)
          ret = '
        } else {
          var contentToUse = CONTENT_TYPES[typeof props.children] ? props.children : null;
          var childrenToUse = null;
          var mountImages = this.mountChildren(childrenToUse, transaction, context);
          ret = mountImages.join('');
        }
      } else if (newlineEatingTags[this._tag] &amp;&amp; ret.charAt(0) === '\n') {
        // textarea ignores the first character in these tags if it's a newline
        // Prefer to break application/xml over text/html (for now) by adding a
        // newline specifically to get eaten by the parser. (Alternately for textarea, replacing \n with \n doesn't get eaten, and the first \n is normalized out by HTMLTextAreaElement#value.)
        ret = '<http://www.w3.org/TR/html-polylot/#newlines-in-textarea-and-pre>
    See: <http://www.w3.org/TR/html5/syntax.html#element-restrictions>
    See: <http://www.w3.org/TR/html5/syntax.html#newlines>
    See: Parsing of "textarea\n" "listing" and "pre"
```
// from <http://www.w3.org/TR/html5/syntax.html#parsing-main-inbody>
return \\n  + ret; \\
} else { 
  return ret; 
}

// Intentional use of != to avoid catching zero/false.
var innerHTML = props.dangerouslySetInnerHTML
if (innerHTML != null) { 
  if (innerHTML.__html != null) { 
    DOMLazyTree.queueHTML(lazyTree, 
      innerHTML.__html); 
  } else { 
    var contentToUse = CONTENT_TYPES[typeof props.children] ? 
      props.children : null; 
    var childrenToUse = contentToUse != null ? null : props.children; 
    // TODO: Validate that text is allowed as a child of this node. 
    // Avoid setting 
    // textContent when the text is empty. In IE11 setting 
    // textContent on a text area will cause the placeholder to 
    // show within the textarea until it has been focused and blurred again. 
    // https://github.com/facebook/react/issues/6731#issuecomment-254874553
    var mountImages = this.mountChildren(childrenToUse, transaction, context); 
    for (var i = 0; i < mountImages.length; i++) { 
      DOMLazyTree.queueChild(lazyTree, mountImages[i]); 
    }
  }
}

// Receives a next element and updates the component.
if (*INTERNAL* && *PARAM* 
  { ReconcileTransaction ReconcileServerRenderingTransaction } ) 
  transaction * @ param { object } context * 
  receiveComponent: function (nextElement, transaction, context) {
    var prevElement = this._currentElement;
    this._currentElement = nextElement;
    this.updateComponent(transaction, prevElement, nextElement, context);
  },

  /**
   * Updates a DOM component after it has already been allocated and
   * attached to the DOM. Reconciles the root DOM node, then
   * recurses.
   */
  _updateDOMProperties: function (lastProps, nextProps, transaction) {
    var propKey;
    var styleName;
    var styleUpdates;
    for (propKey in lastProps) {
      if (nextProps.hasOwnProperty(propKey) ||
        prevElement = this._currentElement;
        this._currentElement = nextElement;
        this._updateDOMChildren(lastProps, nextProps, transaction, context);
        switch (this._tag) {
          case 'input':
            // Update the wrapper around inputs *after* updating props. This has to
            // happen after `_updateDOMProperties`. Otherwise HTML5 input validation
            // raises warnings and prevents the new value from
            // being assigned. 
            ReactDOMInput.updateWrapper(this);
            break;
          case 'textarea':
            ReactDOMTextarea.updateWrapper(this);
            break;
        }
        break;
      }
    }
  }
```

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```javascript
!lastProps.hasOwnProperty(propKey) || lastProps[propKey] == null) { // continue;
  } if (propKey === STYLE) { var lastStyle = this._previousStyleCopy; for (styleName in lastStyle) { // if (lastStyle.hasOwnProperty(styleName)) { var styleUpdates = styleUpdates || {}; if (styleUpdates.hasOwnProperty(styleName)) { lastStyle[styleName] = ''; } this._previousStyleCopy = null; } else if (registrationNameModules.hasOwnProperty(propKey)) { if (lastProps[propKey]) { // Only call deleteListener if there was a listener previously or else willDeleteListener gets called when there wasn’t actually an // listener (e.g., onClick={null}) deleteListener(this, propKey); } else if (!isCustomComponent(this._tag, lastProps)) { if (!RESERVED_PROPS.hasOwnProperty(propKey)) { DOMPropertyOperations.deleteValueForAttribute(getNode(this), propKey); } } else if (this._previousStyleCopy === null) { // Relies on `updateStylesByID` not mutating `styleUpdates` . styleUpdates = nextProp; } else { this._previousStyleCopy = null; } } else if (nextProps[propKey] !== lastProps[propKey]) { DOMPropertyOperations.deleteValueForAttribute(getNode(this), propKey); } } for (propKey in nextProps) { var nextProp = nextProps[propKey]; var lastProp = propKey === STYLE ? this._previousStyleCopy : lastProps != null ? lastProps[propKey] : undefined; if (!nextProps.hasOwnProperty(propKey) || nextProp === lastProp || nextProp == null && lastProp == null) { continue; } if (propKey === STYLE) { if (nextProp) { if (process.env.NODE_ENV !== 'production') { checkAndWarnForMutatedStyle(this._previousStyleCopy, this._previousStyle, this); this._previousStyle = nextProp; } nextProp = this._previousStyleCopy = _assign({}, nextProp); } else { this._previousStyleCopy = null; } if (lastProp) { // Unset styles on `lastProp` but not on `nextProp`. for (styleName in lastProp) { if (lastProp.hasOwnProperty(styleName) && (!nextProp || !nextProp.hasOwnProperty(styleName))) { styleUpdates = styleUpdates || {}; styleUpdates[styleName] = ''; } } // Update styles that changed since `lastProp`. for (styleName in nextProp) { if (nextProp.hasOwnProperty(styleName) && lastProp[styleName] !== nextProp[styleName]) { styleUpdates = styleUpdates || {}; styleUpdates[styleName] = nextProp[styleName]; } } } else { // Relies on `updateStylesByID` not mutating `styleUpdates`. styleUpdates = nextProp; } } if (isCustomComponent(this._tag, nextProps)) { if (!RESERVED_PROPS.hasOwnProperty(propKey)) { DOMPropertyOperations.setValueForAttribute(getNode(this), propKey, nextProps[propKey]); } } else if (DOMProperty.isCustomAttribute(propKey)) { var node = getNode(this); // If we're updating to null or undefined, we should remove the property from the DOM node instead of inadvertently setting to a string. This
  // brings us in line with the same behavior we have on initial render. if (nextProp !== null) { DOMPropertyOperations.setValueForProperty(node, propKey, nextProps[propKey]); } else { DOMPropertyOperations.deleteValueForProperty(node, propKey); } } } }
```
capitalized

```javascript
var badVendoredStyleNamePattern = /^(?:webkit|moz|o)[A-Z]$/; // style values shouldn't contain a semicolon
var badStyleValueWithSemicolonPattern = /\s*$/; // style names should not contain a semicolon
var warnedStyleNames = {}; // style names should not contain a semicolon
var warnedStyleValues = {}; // style values should not contain a semicolon
var warnedForNaNValue = false; // NaN is not valid for style properties
var warnHyphenatedStyleName = function(name, owner) { // style names should not contain a semicolon
  if (warnedStyleNames.hasOwnProperty(name) && warnedStyleNames[name]) {
    return;
  }
  warnedStyleNames[name] = true; // style names should not contain a semicolon
  process.env.NODE_ENV !== 'production' ? warning(false, 'Unsupported style property %s. Did you mean %s?', name, camelizeStyleName(name), checkRenderMessage(owner)) : void 0; // style names should not contain a semicolon
}

var warnBadVendoredStyleName = function(name, owner) { // style names should not contain a semicolon
  if (warnedStyle Names.hasOwnProperty(name) && warnedStyleNames[name]) {
    return;
  }
  warnedStyleNames[name] = true; // style names should not contain a semicolon
  process.env.NODE_ENV !== 'production' ? warning(false, 'Unsupported vendor-prefixed style property %s. Did you mean %s?', name, name.charAt(0).toUpperCase() + name.slice(1), checkRenderMessage(owner)) : void 0; // style names should not contain a semicolon
}

var warnStyleValueWithSemicolon = function(name, value, owner) { // style values should not contain a semicolon
  if (warnedStyleValues.hasOwnProperty(value) && warnedStyleValues[value]) {
    return;
  }
  warnedStyleValues[value] = true; // style values should not contain a semicolon
  process.env.NODE_ENV !== 'production' ? warning(false, 'Style property values shouldn’t contain a semicolon.%s ' + 'Try "%s: %s" instead.', checkRenderMessage(owner), name, value.replace(badStyleValueWithSemicolonPattern, '')) : void 0; // style values should not contain a semicolon
}

var warnStyleValueIsNaN = function(name, value, owner) { // style values should not contain a semicolon
  if (warnedForNaNValue) {
    return;
  }
  warnedForNaNValue = true; // style values should not contain a semicolon
  process.env.NODE_ENV !== 'production' ? warning(false, '`NaN` is an invalid value for the `%s` css style property.%s', name, checkRenderMessage(owner)) : void 0; // style values should not contain a semicolon
}

var checkRenderMessage = function(owner) { // style values should not contain a semicolon
  if (owner) {
    var name = owner.getName(); // style values should not contain a semicolon
    if (name) {
      return ' Check the render method of `' + name + '`.';
    }
  }
  return '';
}

/**
 * @param {string} name
 * @param {*} value
 * @param {ReactDOMComponent} component
 */
var warnValidStyle = function(name, value, component) { // style values should not contain a semicolon
  var owner;
  if (component) {
    owner = component._currentElement._owner;
  } // style values should not contain a semicolon
  if (name.indexOf('-') > -1) { // style values should not contain a semicolon
    warnHyphenatedStyleName(name, owner);
  } else if (badVendoredStyleNamePattern.test(name)) { // style values should not contain a semicolon
    warnBadVendoredStyleName(name, owner);
  } else if (badStyleValueWithSemicolonPattern.test(value)) { // style values should not contain a semicolon
    warnStyleValueWithSemicolon(name, value, owner);
  } // style values should not contain a semicolon

  if (typeof value === 'number' && isNaN(value)) { // style values should not contain a semicolon
    warnStyleValueIsNaN(name, value, owner);
  } // style values should not contain a semicolon

  // style values should not contain a semicolon
  if (!warnedForNaNValue) { // style values should not contain a semicolon
    warnValidStyle = function(name, value, component) { // style values should not contain a semicolon
      var owner = component._currentElement._owner; // style values should not contain a semicolon
      if (name.indexOf('-') > -1) { // style values should not contain a semicolon
        warnHyphenatedStyleName(name, owner); // style values should not contain a semicolon
      } else if (badVendoredStyleNamePattern.test(name)) { // style values should not contain a semicolon
        warnBadVendoredStyleName(name, owner); // style values should not contain a semicolon
      } else if (badStyleValueWithSemicolonPattern.test(value)) { // style values should not contain a semicolon
        warnStyleValueWithSemicolon(name, value, owner); // style values should not contain a semicolon
      } if (owner) { // style values should not contain a semicolon
        var name = owner.getName(); // style values should not contain a semicolon
        if (name) { // style values should not contain a semicolon
          return ' Check the render method of `' + name + '`.';
        }
      } // style values should not contain a semicolon
      if (process.env.NODE_ENV !== 'production') { // style values should not contain a semicolon
        if (!isCustomProperty) { // style values should not contain a semicolon
          warnValidStyle(styleName, styleValue, component); // style values should not contain a semicolon
        }
      } // style values should not contain a semicolon
      if (styleValue !== null) { // style values should not contain a semicolon
        serialized += processStyleName(styleName) + ':'; // style values should not contain a semicolon
        serialized += dangerousStyleValue(styleName, styleValue, component, isCustomProperty) + ';'; // style values should not contain a semicolon
        serialized += warningStyleValue == null ? null : warningStyleValue; // style values should not contain a semicolon
        serialized += ';'; // style values should not contain a semicolon
        serialized += createMarkupForStyles({width: '200px', height: 0}); // style values should not contain a semicolon
      } // style values should not contain a semicolon
    }
  } // style values should not contain a semicolon
  if (process.env.NODE_ENV !== 'production') { // style values should not contain a semicolon
    ReactInstrumentation.debugTool.onHostOperation({ // style values should not contain a semicolon
      instanceID: component._debugID, // style values should not contain a semicolon
      type: 'update styles', // style values should not contain a semicolon
      payload: styles // style values should not contain a semicolon
    }); // style values should not contain a semicolon
  }
  var serialized = ''; // style values should not contain a semicolon
  for (var styleName in styles) { // style values should not contain a semicolon
    if (!styles.hasOwnProperty(styleName)) { // style values should not contain a semicolon
      continue;
    } // style values should not contain a semicolon
    var isCustomProperty = styleName.indexOf('--') === 0; // style values should not contain a semicolon
    var styleValue = styles[styleName]; // style values should not contain a semicolon
    if (process.env.NODE_ENV !== 'production') { // style values should not contain a semicolon
      if (!isCustomProperty) { // style values should not contain a semicolon
        warnValidStyle(styleName, styleValue, component); // style values should not contain a semicolon
      }
    } // style values should not contain a semicolon
    if (styleValue !== null) { // style values should not contain a semicolon
      serialized += processStyleName(styleName) + ':'; // style values should not contain a semicolon
      serialized += dangerou
var expansion = hasShorthandPropertyBug &
&

CSSProperty.shorthandPropertyExpansions[styleName];

if (expansion) {
    // Shorthand property that IE8
    // won't like unsetting, so unset each
    // component to placate it
}

var style = style || { };

if (isCustomProperty) {
    style = style || {};
}

for (var prop in style) {
    if (prop in styleWarnings) {
        if (process.env.NODE_ENV !== 'production') {
            if (owner && owner._currentElement._owner) {
                var ownerName = owner._currentElement._owner

                if (process.env.NODE_ENV !== 'production') {
                    // Allow '0' to pass through without warning. 0 is
                    // already special and doesn't require units, so we
                    // don't need to warn about it.
                    if (component & value !== 0) {
                        var owner = component._currentElement._owner;

                        var ownerName = owner ? owner.getName() : null;

                        if (ownerName & !styleWarnings[ownerName]) {
                            var warnings = styleWarnings[ownerName] = {};

                            var warned = false;

                            if (ownerName) {
                                var var warnings;
                            }

                            if (warned) {
                                var warnings[name] = true;
                            }

                            if (warned) {
                                var process.env.NODE_ENV !== 'production' ?
                                    warning(false, 'a
' %s' tag (owner: %s) was passed a numeric string value +' for CSS property
' %s' (value: %s) which will be
function makePrefixMap(styleProp, eventName) {
  var prefixes = {};

  prefixes[styleProp.toLowerCase()] = eventName.toLowerCase();
  prefixes['Webkit' + styleProp] = 'webkit' + eventName;
  prefixes['Moz' + styleProp] = 'Moz' + eventName;
  prefixes['O' + styleProp] = 'O' + eventName.toLowerCase();
  prefixes['ms' + styleProp] = 'MS' + eventName;
  prefixes['OP' + styleProp] = 'OP' + eventName;

  return prefixes;
}

/**
 * A list of event names to a configurable list of vendor prefixes.
 */
var vendorPrefixes = {
  animationend: makePrefixMap('Animation', 'AnimationEnd'),
  animationiteration: makePrefixMap('Animation', 'AnimationIteration'),
  animationstart: makePrefixMap('Animation', 'AnimationStart'),
  transitionend: makePrefixMap('Transition', 'TransitionEnd')
};

/**
 * Event names that have already been detected and prefixed if applicable.
 */
var prefixedEventNames = {};

/**
 * Element to check for prefixes on.
 */
var style = {};

/**
 * Bootstrap if a DOM exists.
 */
if (ExecutionEnvironment.canUseDOM) {
  style = document.createElement('div').style;

  // On some platforms, in particular some releases of Android 4.x, the
  // un-prefixed "animation" and "transition" properties are defined on the
  // style object but the events that fire will still be prefixed, so we need
  // to check if the un-prefixed events are usable, and if not remove them from
  // the map.
  if (!('AnimationEvent' in window)) {
    delete vendorPrefixes.animationend.animation;
    delete vendorPrefixes.animationiteration.animation;
    delete vendorPrefixes.animationstart.animation;
  }

  // Same as above
  if (!('TransitionEvent' in window)) {
    delete vendorPrefixes.transitionend.transaction;
  }

  // Attempts to determine the correct vendor prefixed event name
  if (prefixMap.hasOwnProperty(styleProp) && styleProp in style) {
    return prefixedEventNames[eventName] = prefixMap[styleProp];
  }

  return '';
}

module.exports = getVendorPrefixedEventName;


// WEBPACK FOOTER
// module id = 807
// module chunks = 0
order
  // in corner cases such as min or max deriving from value, e.g. Issue #7170
  min: undefined,
  max: undefined
}, props, { defaultChecked: undefined, defaultValue: undefined, value: value !=
null ? value : inst._wrapperState.initialValue, checked: checked != null ? checked :
inst._wrapperState.initialChecked, onChange: inst._wrapperState.onChange },

return hostProps;

},

mountWrapper: function (inst, props) {
  if (process.env.NODE_ENV !== 'production') {

    LinkedValueUtils.checkPropTypes('input', props, inst._currentElement._owner);

    var owner = inst._currentElement._owner;

    if (props.valueLink !== undefined && !didWarnValueLink) {
      process.env.NODE_ENV !== 'production' ? warning(false, `valueLink` prop on `input` is deprecated; set `value` and `onChange` instead.) : void 0;
        didWarnValueLink = true;
      }
      if (props.checkedLink !== undefined && !didWarnCheckedLink) {
        process.env.NODE_ENV !== 'production' ? warning(false, `checkedLink` prop on `input` is deprecated; set `value` and `onChange` instead.) : void 0;

    }

    var defaultValue = props.defaultValue;
    inst._wrapperState = {
      initialChecked: props.checked != null ? props.checked : props.defaultChecked,
      initialValue: props.value != null ? props.value : defaultValue,
      listeners: null, listeners: null, onChange: _handleChange.bind(inst),
      controlled: isControlled(props)
    };

    // TODO: Shouldn't this be getChecked(props)?
    var checked = props.checked;
    if (checked != null) {

      DOMPropertyOperations.setValueForProperty(ReactDOMComponentTree.getNodeFromInstance(inst), 'checked', checked || false);
    }

    var node = ReactDOMComponentTree.getNodeFromInstance(inst);
    var value = LinkedValueUtils.getValue(props);
    if (value != null) { if (value === 0 && node.value === '') {

        node.value = '0';
      } else if (props.type === 'number') {

        var valueAsNumber = parseFloat(node.value, 10) || 0;
        if (valueAsNumber % 0 === 0) else if (props.type === 'number') {

        // Simulate `input.valueAsNumber`. IE9 does not support it
        var valueAsNumber = parseFloat(node.value, 10) || 0;
        if (valueAsNumber % 0 === 0) else if (props.type === 'number') {

        // eslint-disable-next-line
        value != valueAsNumber ||
    // eslint-disable-next-line
    value == valueAsNumber && node.value != value
  }

    }

    } else if (props.checked) {

    // Don't have to check here since we're already in a controlled state
    }

    var checked = props.checked;
    if (checked != null) { if (checked) 

      DOMPropertyOperations.setValueForProperty(ReactDOMComponentTree.getNodeFromInstance(inst), 'checked', checked || false);
    }

    var node = ReactDOMComponentTree.getNodeFromInstance(inst);
    var value = LinkedValueUtils.getValue(props);
    if (value != null) { if (value === 0 && node.value === ''){

        node.value = '0';
      } else if (props.type === 'number') {

        var valueAsNumber = parseFloat(node.value, 10) || 0;
        if (valueAsNumber % 0 === 0) else if (props.type === 'number') {

        // Simulate `input.valueAsNumber`. IE9 does not support it
        var valueAsNumber = parseFloat(node.value, 10) || 0;
        if (valueAsNumber % 0 === 0) else if (props.type === 'number') {

        // eslint-disable-next-line
        value != valueAsNumber ||
    // eslint-disable-next-line
    value == valueAsNumber && node.value != value
  }

    } else if (props.checked) {

    // Don't have to check here since we're already in a controlled state
    }

    var checked = props.checked;
    if (checked != null) { if (checked) 

      DOMPropertyOperations.setValueForProperty(ReactDOMComponentTree.getNodeFromInstance(inst), 'checked', checked || false);
    }

    var node = ReactDOMComponentTree.getNodeFromInstance(inst);
    var value = LinkedValueUtils.getValue(props);
    if (value != null) { if (value === 0 && node.value === ''){

        node.value = '0';
      } else if (props.type === 'number') {

        var valueAsNumber = parseFloat(node.value, 10) || 0;
        if (valueAsNumber % 0 === 0) else if (props.type === 'number') {

        // Simulate `input.valueAsNumber`. IE9 does not support it
// Cast `value` to a string to ensure the value is set correctly. While browsers typically do this as necessary, jsdom doesn't.
node.value = '' + value;

if (node.value !== '' + value) {
  // Cast `value` to a string to ensure the value is set correctly. While browsers typically do this as necessary, jsdom doesn't.
  node.value = '' + value;
}

else if (node.value !== '' + value) {
  // Cast `value` to a string to ensure the value is set correctly. While browsers typically do this as necessary, jsdom doesn't.
  node.value = '' + value;
}

else {
  if (props.value == null && props.defaultValue != null) {
    // In Chrome, assigning defaultValue to certain input types triggers input validation.
    // For number inputs, the display value loses trailing decimal points. For email inputs, Chrome raises "The specified value <x> is not a valid email address!".
    // Here we check to see if the defaultValue has actually changed, avoiding these problems
    // when the user is inputting text.
    // https://github.com/facebook/react/issues/7253
    node.defaultValue = '' + props.defaultValue;
  }
  if (props.checked == null && props.defaultChecked != null) {
    node.defaultChecked = !!props.defaultChecked;
  }
}

var name = node.name;
if (name !== '') {
  node.name = '';
}
node.defaultChecked = !node.defaultChecked;
node.defaultChecked = !node.defaultChecked;
if (name !== '') {
  node.name = name;
}

postMountWrapper: function (inst) {
  var props = inst._currentElement.props;

  // This is in postMount because we need access to the DOM node, which is not available until after the component has mounted.
  var node = ReactDOMComponentTree.getNodeFromInstance(inst);

  // Detach value from defaultValue. We won't do anything if we're working on submit or reset inputs as those values & defaultValues are linked.
  // They are not resetable nodes so this operation doesn't matter and actually removes browser-default values (eg "Submit Query") when no value is provided.
  switch (props.type) {
    case 'submit':
    case 'reset':
      break;
    case 'color':
    case 'date':
    case 'datetime':
    case 'datetime-local':
    case 'month':
    case 'time':
    case 'week':
      // This fixes the no-show issue on iOS Safari and Android Chrome.
      // https://github.com/facebook/react/issues/7233
      node.value = '';
      node.value = node.defaultValue;
      break;
    default:
      node.value = node.value;
      break;
  }

  // Normally, we'd just do `node.checked = node.checked` upon initial mount, less this bug:
  // this is needed to work around a chrome bug where setting defaultChecked will sometimes influence the value of checked (even after detachment).

  // We need to temporarily unset name to avoid disrupting radio button groups.
  if (name && node.name != node.name) {
    if (name !== '') {
      node.name = name;
    }
    node.defaultChecked = !node.defaultChecked;
    node.defaultChecked = !node.defaultChecked;
    if (name !== '') {
      node.name = name;
    }

    _handleChange(event) {
      var props = this._currentElement.props;
      var returnValue = LinkedValueUtils.executeOnChange(props, event);

      // Here we use asap to wait until all updates have propagated, which
      // is important when using controlled components within layers:
      // https://github.com/facebook/react/issues/1698
      ReactUpdates.asap(forceUpdateIfMounted, this);

      var name = props.name;
      if (props.type === 'radio' && name != null) {
        var rootNode = ReactDOMComponentTree.getInstanceFromNode(this);
        var queryRoot = rootNode
        while (queryRoot.parentNode) {
          queryRoot = queryRoot.parentNode;
        }

        // If rootNode.form' was non-null, then we could try `form.elements`.
        // but that sometimes behaves strangely in IE8. We could also try using
        // `form.getElementsByTagName`, but that will only return direct children
        // and won't include inputs that use the HTML5 `form` attribute. Since
        // the input might not even be in a form, let's just use the global
        // `querySelectorAll` to ensure we don't miss anything.
        var group = queryRoot.querySelectorAll(`input[name=${name}] + JSON.stringify(" + name + ")`)
        for (var i = 0; i < group.length; i++) {
          var otherNode = group[i];
          if (otherNode === rootNode || otherNode.form) {
            return;
          }
        }

        // This will throw if radio buttons rendered by different copies of React are in the same name are rendered into the same form (same as #1939).
        // That's probably okay; we don't support it just as we don't support
        // mixing React radio buttons with non-React ones.
        var otherInstance = ReactDOMComponentTree.getInstanceFromNode(otherNode);
        ReactUpdates.asap(forceUpdateIfMounted, otherInstance);
        return returnValue;
      }
    }
  }
}
if (process.env.NODE_ENV !== 'production') {
  var selfDebugID = getDebugID(this);
  if (this._currentElement) {
    try {
      ReactCurrentOwner.current = this._currentElement._owner;
      return ReactChildReconciler.instantiateChildren(nestedChildren, transaction, context, selfDebugID);
    } finally {
      ReactCurrentOwner.current = null;
    }
  }
  return ReactChildReconciler.instantiateChildren(nestedChildren, transaction, context);
}

_reconcilerUpdateChildren: function(prevChildren, nextNestedChildrenElements, mountImages, removedNodes, transaction, context) {
  var nextChildren = flattenChildren(nextNestedChildrenElements, selfDebugID);
  if (process.env.NODE_ENV !== 'production') {
    selfDebugID = getDebugID(this);
  } else {
    return ReactChildReconciler.updateChildren(prevChildren, nextChildren, mountImages, removedNodes, transaction, context);
  }

  var children = this._renderedChildren;
  var mountImages = [];
  var index = 0;
  for (var name in children) {
    if (children.hasOwnProperty(name)) {
      var child = children[name];
      var selfDebugID = 0;
      if (process.env.NODE_ENV !== 'production') {
        selfDebugID = getDebugID(this);
      }
      var mountImage = ReactReconciler.mountComponent(child, transaction, this, this._hostContainerInfo, context, selfDebugID);
      child._mountIndex = index++;
      mountImages.push(mountImage);
    }
  }

  if (process.env.NODE_ENV !== 'production') {
    setChildrenForInstrumentation.call(this, children);
  }

  return mountImages;
}

updateTextContent: function(nextContent) {
  var prevChildren = this._renderedChildren;
  ReactChildReconciler.unmountChildren(prevChildren, false);
  for (var name in prevChildren) {
    if (prevChildren.hasOwnProperty(name)) {
      !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.') : _prodInvariant('118') : void 0;
    }
  }
  var updates = [makeTextContent(nextContent)];
  processQueue(this, updates);
  nextMarkup = makeSetMarkup(nextContent);
  nextMarkup = makeSetMarkup(nextMarkup);
  nextMarkup = makeSetMarkup(nextMarkup);
  ReactChildReconciler.updateChildren(nextNestedChildrenElementMaps, transaction, context);
}

_updateChildren: function(prevChildren, nextNestedChildrenElements, transaction, context) {
  var nextChildren = flattenChildren(nextNestedChildrenElements, selfDebugID);
  if (process.env.NODE_ENV !== 'production') {
    selfDebugID = getDebugID(this);
  } else {
    ReactChildReconciler.updateChildren(prevChildren, nextChildren, mountImages, removedNodes, transaction, context);
  }

  if (prevChildren !== this._renderedChildren) {
    if (prevChildren) {
      for (var name in prevChildren) {
        if (prevChildren.hasOwnProperty(name)) {
          !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.') : _prodInvariant('118') : void 0;
        }
      }
      var updates = [makeTextContent(nextContent)];
      processQueue(this, updates);
    }
    nextMarkup = makeSetMarkup(nextContent);
    nextMarkup = makeSetMarkup(nextMarkup);
    nextMarkup = makeSetMarkup(nextMarkup);
    ReactChildReconciler.updateChildren(nextNestedChildrenElementMaps, transaction, context);
  }

  if (nextChildren !== this._renderedChildren) {
    if (nextChildren) {
      for (var name in nextChildren) {
        if (nextChildren.hasOwnProperty(name)) {
          !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.') : _prodInvariant('118') : void 0;
        }
      }
      var updates = [makeTextContent(nextContent)];
      processQueue(this, updates);
    }
    nextMarkup = makeSetMarkup(nextContent);
    nextMarkup = makeSetMarkup(nextMarkup);
    nextMarkup = makeSetMarkup(nextMarkup);
    ReactChildReconciler.updateChildren(nextNestedChildrenElementMaps, transaction, context);
  }

  if (prevChildren && nextChildren && nextChildren.length === 0) {
    // children only removed
    var updatedChildren = this._renderedChildren;
    this._renderedChildren = nextChildren;
    this._renderedChildren = updatedChildren;
  } else {
    // children both added and removed
    var updatedChildren = this._renderedChildren;
    this._renderedChildren = nextChildren;
    this._renderedChildren = updatedChildren;
  }

  return ReactChildReconciler.updateChildren(nextChildren, transaction, context);
}

updateMarkup: function(nextMarkup) {
  var prevChildren = this._renderedChildren;
  ReactChildReconciler.unmountChildren(prevChildren, false);
  for (var name in prevChildren) {
    if (prevChildren.hasOwnProperty(name)) {
      !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.') : _prodInvariant('118') : void 0;
    }
  }

  var updates = [makeSetMarkup(nextMarkup)];
  processQueue(this, updates);

  nextMarkup = makeSetMarkup(nextMarkup);
  nextMarkup = makeSetMarkup(nextMarkup);
  nextMarkup = makeSetMarkup(nextMarkup);
  ReactChildReconciler.updateChildren(nextNestedChildrenElementMaps, transaction, context);
}

updates: function(prevChildren, nextChildren, removedNodes, transaction, context) {
  var nextChildren = flattenChildren(nextChildren, selfDebugID);
  if (process.env.NODE_ENV !== 'production') {
    selfDebugID = getDebugID(this);
  } else {
    ReactChildReconciler.updateChildren(prevChildren, nextChildren, mountImages, removedNodes, transaction, context, selfDebugID);
    return nextChildren;
  }

  for (var name in nextChildren) {
    if (nextChildren.hasOwnProperty(name)) {
      var child = nextChildren[name];
      var selfDebugID = 0;
      if (process.env.NODE_ENV !== 'production') {
        selfDebugID = getDebugID(this);
      }
      var mountImage = ReactReconciler.mountComponent(child, transaction, this, this._hostContainerInfo, context, selfDebugID);
      child._mountIndex = index++;
      mountImages.push(mountImage);
    }
  }

  if (process.env.NODE_ENV !== 'production') {
    setChildrenForInstrumentation.call(this, nextChildren);
  }

  return mountImages;
}

var nextChildren = flattenChildren(nextChildren, selfDebugID);
ReactChildReconciler.updateChildren(prevChildren, nextChildren, mountImages, removedNodes, transaction, context, selfDebugID);

if (prevChildren !== this._renderedChildren) {
  if (prevChildren) {
    for (var name in prevChildren) {
      if (prevChildren.hasOwnProperty(name)) {
        !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.') : _prodInvariant('118') : void 0;
      }
    }
  }
  var updatedChildren = this._renderedChildren;
  this._renderedChildren = nextChildren;
  this._renderedChildren = updatedChildren;
}

if (nextChildren !== this._renderedChildren) {
  if (nextChildren) {
    for (var name in nextChildren) {
      if (nextChildren.hasOwnProperty(name)) {
        !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.') : _prodInvariant('118') : void 0;
      }
    }
  }
  var updatedChildren = this._renderedChildren;
  this._renderedChildren = nextChildren;
  this._renderedChildren = updatedChildren;
}

return ReactChildReconciler.updateChildren(nextChildren, transaction, context);

if (prevChildren && nextChildren && nextChildren.length === 0) {
  // children only removed
  var updatedChildren = this._renderedChildren;
  this._renderedChildren = nextChildren;
  this._renderedChildren = updatedChildren;
}

else {
  // children both added and removed
  var updatedChildren = this._renderedChildren;
  this._renderedChildren = nextChildren;
  this._renderedChildren = updatedChildren;
}

return ReactChildReconciler.updateChildren(nextChildren, transaction, context);

if (prevChildren && nextChildren && nextChildren.length === 0) {
  // children only removed
  var updatedChildren = this._renderedChildren;
  this._renderedChildren = nextChildren;
  this._renderedChildren = updatedChildren;
}

else {
  // children both added and removed
  var updatedChildren = this._renderedChildren;
  this._renderedChildren = nextChildren;
  this._renderedChildren = updatedChildren;
}

return ReactChildReconciler.updateChildren(nextChildren, transaction, context);

if (prevChildren && nextChildren && nextChildren.length === 0) {
  // children only removed
  var updatedChildren = this._renderedChildren;
  this._renderedChildren = nextChildren;
  this._renderedChildren = updatedChildren;
}

else {
  // children both added and removed
  var updatedChildren = this._renderedChildren;
  this._renderedChildren = nextChildren;
  this._renderedChildren = updatedChildren;
}

return ReactChildReconciler.updateChildren(nextChildren, transaction, context);

if (prevChildren && nextChildren && nextChildren.length === 0) {
  // children only removed
  var updatedChildren = this._renderedChildren;
  this._renderedChildren = nextChildren;
  this._renderedChildren = updatedChildren;
}

else {
  // children both added and removed
  var updatedChildren = this._renderedChildren;
  this._renderedChildren = nextChildren;
  this._renderedChildren = updatedChildren;
}

return ReactChildReconciler.updateChildren(nextChildren, transaction, context);
```javascript
// ... (previous code remains unchanged) ...

    /**
     * Unmounts all rendered children. This should be used to clean up children
     * when this
     * component is unmounted. It does not actually perform any
     * backend operations.
     *
     * @protected
     */
    unmountChildren: function (safely) {
      var renderedChildren = this._renderedChildren;
      ReactChildReconciler.unmountChildren(renderedChildren, safely);
      this._renderedChildren = null;
    },

    /**
     * Moves a child component to the supplied index.
     *
     * @param {ReactComponent} child
     * Component to move.
     * @param {number} toIndex Destination index of the element.
     * @param {number} lastIndex Last index visited of the siblings of `child`.
     * @protected
     */
    moveChild: function (child, afterNode, toIndex, lastIndex) {
      // If the index of `child` is less than `lastIndex`, then it needs to
      // be
      // moved. Otherwise, we do not need to move it because a child will be
      // inserted or moved before `child`.
      if (child._mountIndex < lastIndex) {
        return makeMove(child, afterNode, toIndex);
      }
    },

    /**
     * Creates a child component.
     *
     * @param {ReactComponent} child Component to create.
     * @param {string} mountImage Markup to insert.
     * @protected
     */
    createChild: function (child, afterNode, mountImage) {
      return makeInsertMarkup(mountImage, afterNode, child._mountIndex);
    },

    /**
     * Removes a child component.
     *
     * @param {ReactComponent} child Child to remove.
     * @protected
     */
    removeChild: function (child, node) {
      return makeRemove(child, node);
    },

    /**
     * Mounts a
     * child with the supplied name.
     *
     * NOTE: This is part of `updateChildren` and is here for readability.
     *
     * @param {ReactComponent} child Component to mount.
     * @param {string} index Index at which to insert the child.
     * @param {ReactReconcileTransaction}
     * transaction
     * @private
     */
    _mountChildAtIndex: function (child, mountImage, afterNode, index, transaction, context) {
      child._mountIndex = index;
      return this.createChild(child, afterNode, mountImage);
    },

    /**
     * Unmounts a rendered child.
     *
     * NOTE: This is part of `updateChildren` and is here for readability.
     *
     * @param {ReactComponent} child Component to unmoutn.
     * @private
     */
    _unmountChild: function (child, node) {
      var update = this.removeChild(child, node);
      child._mountIndex = null;
      return update;
    }

    // ... (remaining code remains unchanged) ...
}

module.exports = ReactMultiChild;

```

traverseAllChildren = require('./traverseAllChildren');
var warning = require('fbjs/lib/warning');

var ReactComponentTreeHook;

if (typeof process !== 'undefined' && process.env && process.env.NODE_ENV
  !== 'test') {
  // Temporary hack.
  // Inline requires don't work well with Jest:
  // https://github.com/facebook/react/issues/7240
  // Remove the inline requires when we don't need them anymore:
  // https://github.com/facebook/react/pull/7178
  ReactComponentTreeHook = require('react/lib/ReactComponentTreeHook');
}

function instantiateChild(childInstances, child, name, selfDebugID) {
  // We found a component instance.
  var keyUnique = childInstances[name] === undefined;
  if (process.env.NODE_ENV !== 'production') {
    if (!ReactComponentTreeHook) {
      ReactComponentTreeHook = require('react/lib/ReactComponentTreeHook');
    }
    if (!keyUnique) {
      process.env.NODE_ENV !== 'production' ? warning(false, 'flattenChildren(...): Encountered two children with the
same key,' + '+' + '%s'. Child keys must be unique; when two children share a key, only + first child will be
used.%s', KeyEscapeUtils.unescape(name), ReactComponentTreeHook.getStackAddendumByID(selfDebugID)) :
      void 0;
    }
  }
  if (child != null && &keyUnique) { var childInstances[name] = instantiateReactComponent(child,
true);
  }

  traverseAllChildren(nestedChildNodes, function (childInsts, child, name) {
    return instantiateChild(childInsts, child, name, selfDebugID);
  }, childInstances);
}

/**
 * ReactChildReconciler provides helpers for initializing or updating a set of
children. Its
output is suitable for passing it onto ReactMultiChild which
* does diffed reordering and insertion.*

ReactChildReconciler = {
  instantiateChildren: function (nestedChildNodes, transaction, context, selfDebugID) {
    if (nestedChildNodes == null) {
      return null;
    }
    var childInstances = {};

    if (process.env.NODE_ENV
  !== 'production') {
      traverseAllChildren(nestedChildNodes, function (childInsts, child, name) {
        return instantiateChild(childInsts, child, name, selfDebugID);
      }, childInstances);
    } else {
      traverseAllChildren(nestedChildNodes, instantiateChild, childInstances);
    }

    return childInstances;
  },

  updateChildren: function (prevChildren, nextChildren, mountImages, removedNodes, transaction, hostParent, hostContainerInfo, context, selfDebugID) {
    // We currently don't have a way to track moves here but if we use iterators
    // instead of for..in we can zip
the iterators and check if an item hasn't // moved.
    // TODO: If nothing has changed, return the prevChildren
object so that we can
// can quickly bailout if nothing has changed.
if (!nextChildren && !prevChildren) {
  return;
}
    var name;
    var prevChild;
    for (name in nextChildren) {
      if (nextChildren.hasOwnProperty(name)) {
        prevChild = prevChildren[name];
        var prevElement = prevChild && prevChild._currentElement;
        var nextElement = nextChildren[name];

        if (prevChild != null && shouldUpdateReactComponent(prevElement, nextElement)) {
          ReactReconciler.receiveComponent(prevChild, nextElement, transaction, context);
        } else {
          if (prevChild) {
            removedNodes[name] = ReactReconciler.getHostNode(prevChild);
            ReactReconciler.unmountComponent(prevChild, false);
          }
        }
      } else {
        var prevId = prevChildren[name];
        var prevChild = prevChildren[name];
        var prevElement = prevChild && prevChild._currentElement;
        var nextElement = nextChildren[name];

        if (prevChild != null && shouldUpdateReactComponent(prevElement, nextElement)) {
          ReactReconciler.receiveComponent(prevChild, nextElement, transaction, context);
        } else {
          if (prevChild) {
            removedNodes[name] = ReactReconciler.getHostNode(prevChild);
            ReactReconciler.unmountComponent(prevChild, false);
          }
        }
      }
    }
    // Unmount children that are no longer present.
    for (name in prevChildren) {
      if (prevChildren.hasOwnProperty(name)) {
        var prevId = prevChildren[name];
        var prevChild = prevChildren[name];
        var prevElement = prevChild && prevChild._currentElement;
        var nextElement = nextChildren[name];

        if (prevChild != null && shouldUpdateReactComponent(prevElement, nextElement)) {
          ReactReconciler.receiveComponent(prevChild, nextElement, transaction, context);
        } else {
          if (prevChild) {
            removedNodes[name] = ReactReconciler.getHostNode(prevChild);
            ReactReconciler.unmountComponent(prevChild, false);
          }
        }
      }
    }
  },

  receiveComponent: function (prevChild, nextElement, transaction, context) {
    // The child must be instantiated before it's mounted.
    var nextChildInstance = instantiateReactComponent(nextElement, true);
    var nextChildId = nextChildInstance.id;

    // Creating mount image now ensures refs are resolved in right order
    // see https://github.com/facebook/react/pull/7101 For explanation
    var nextChildMountImage = ReactReconciler.mountComponent(nextChildInstance,
transaction, hostParent, hostContainerInfo, context, selfDebugID);

    mountImages.push(nextChildMountImage);
    } // Unmount children that are no longer present.
    for (name in prevChildren) {
      if (prevChildren.hasOwnProperty(name)) { var prevId = prevChildren[name];
        var prevChild = prevChildren[name];
        var prevElement = prevChild && prevChild._currentElement;
        var nextElement = nextChildren[name];

        if (prevChild != null && shouldUpdateReactComponent(prevElement, nextElement)) {
          ReactReconciler.receiveComponent(prevChild, nextElement, transaction, context);
        } else {
          if (prevChild) {
            removedNodes[name] = ReactReconciler.getHostNode(prevChild);
            ReactReconciler.unmountComponent(prevChild, false);
          }
        }
      }
    }
  }/*
 * Unmounts all rendered children. This should be used to clean up children
  * when this
component is unmounted.

```javascript

if (renderedChildren.hasOwnProperty(name)) {
  var renderedChild = renderedChildren[name];
  ReactReconciler.unmountComponent(renderedChild, safel);}
```

The code snippet above is a reaction component's behavior when it is mounted. The `unmountChildren` function is called to unmount all children components. The function iterates over each child component in the `renderedChildren` object, which contains previously initialized children. For each child, it calls the `ReactReconciler.unmountComponent` function with the child component and a flag indicating whether to safely unmount it (`safel`). This process ensures proper cleanup of unmounted components, especially in production environments where performance optimization is crucial.

The snippet also includes a conditional check for the presence of the `ReactComponentEnvironment`, which is required for the environment's configuration.

The function `ReactReconciler.unmountComponent` is a private method responsible for unmounting a single component, and it's part of the React library's implementation for managing the life cycle of components in a React application.
{ReactElement} element
   * @final
   * @internal
   */
  construct: function (element) {
    this._currentElement = element;
    this._rootNodeID = 0;
    this._compositeType = null;
    this._instance = null;
    this._hostParent = null;
    this._hostContainerInfo = null;
    this._updateBatchNumber = null;
    this._pendingElement = null;
    this._pendingStateQueue = null;
    this._pendingReplaceState = false;
    this._pendingForceUpdate = false;
    this._renderedNodeType = null;
    this._renderedComponent = null;
    this._context = null;
    this._mountOrder = 0;
    this._topLevelWrapper = null;
    // See ReactUpdates and ReactUpdateQueue
    this._pendingCallback = null;
    // ComponentWillUnmount shall only be called once
    this._calledComponentWillUnmount = false;
    if (process.env.NODE_ENV !== 'production') {
      this._warnedAboutRefsInRender = false;
    }
  },

  /**
   * Initializes the component, renders markup, and registers event listeners.
   *
   * @param {ReactReconcileTransaction|ReactServerRenderingTransaction} transaction
   * @param {?object} hostParent
   * @param {?object} hostContainerInfo
   * @param {?object} context
   * @return {?string} Rendered markup to be inserted into the DOM
   * @final
   * @internal
   */
  mountComponent: function (transaction, hostParent, hostContainerInfo, context) {
    var _this = this;

    this._context = context;
    this._mountOrder = nextMountID++;
    this._hostParent = hostParent;
    this._hostContainerInfo = hostContainerInfo;

    var publicProps = this._currentElement.props;
    var publicContext = this._processContext(context);

    var Component = this._currentElement.type;
    var updateQueue = transaction.getUpdateQueue();

    // Initialize the public class
    var doConstruct = shouldConstruct(Component);
    var inst = this._constructComponent(doConstruct, publicProps, publicContext, updateQueue);
    var renderedElement;

    // Support functional components
    if (!doConstruct && (inst == null || inst.render == null)) {
      renderedElement = inst;
      warnIfInvalidElement(Component, renderedElement);
      !(inst === null || inst === false || React.isValidElement(inst)) ? process.env.NODE_ENV !== 'production' ? invariant(false, '%s(...): A valid React element (or null) must be returned. You may have returned undefined, an array or some other invalid object.', Component.displayName || Component.name || 'Component') : _prodInvariant('105', Component.displayName || Component.name || 'Component') : void 0;
      inst = new StatelessComponent(Component);
      this._compositeType = CompositeTypes.StatelessFunctional;
    } else {
      if (isPureComponent(Component)) {
        this._compositeType = CompositeTypes.PureClass;
      } else {
        this._compositeType = CompositeTypes.ImpureClass;
      }
    }

    if (process.env.NODE_ENV !== 'production') {
      // This will throw later in _renderValidatedComponent, but add an early
      // warning now to help debugging
      if (inst.render == null) {
        process.env.NODE_ENV !== 'production' ? warning(false, '%s(...): No `render` method found on the returned component + instance: you may have forgotten to define `render`.', Component.displayName || Component.name || 'Component') : void 0;

      var propsMutated = inst.props !== publicProps;
      var componentName = Component.displayName || Component.name || 'Component';

      process.env.NODE_ENV !== 'production' ? warning(!inst.getInitialState || inst.getInitialState.isReactClassApproved || inst.state, 'getInitialState was defined on %s, a plain JavaScript class. This is only supported for classes created using React.createClass. Did you mean to define a state property instead?', this.getName() || 'a component') : void 0;
      process.env.NODE_ENV !== 'production' ? warning(!inst.getDefaultProps || inst.getDefaultProps.isReactClassApproved, 'getDefaultProps was defined on %s, a plain JavaScript class. Use a static property to define defaultProps instead.', componentName) : void 0;
    }

    // Store a reference from the instance back to the internal representation
    ReactInstanceMap.set(inst, this);

    // This should be set up in the constructor, but as a convenience for
    // simpler class abstractions, we set them up after the fact.
    inst.props = publicProps;
    inst.context = publicKey;
    inst.refs = emptyObject;
    inst.updater = updateQueue;
    inst._instance = inst;
    // Store a reference from the instance back to the internal representation
    ReactInstanceMap.set(inst, this);

    if (process.env.NODE_ENV !== 'production') {
      // Since plain JS classes are defined without any special
      // logic, we can not catch common errors early. Therefore, we have to
      // catch them here, at initialization time, instead.
      process.env.NODE_ENV !== 'production' ? warning(!inst.getInitialState || inst.getInitialState.isReactClassApproved || inst.state, 'getInitialState was defined on %s, a plain JavaScript class. This is only supported for classes created using React.createClass. Did you mean to define a state property instead?', this.getName() || 'a component') : void 0;
      process.env.NODE_ENV !== 'production' ? warning(!inst.getDefaultProps || inst.getDefaultProps.isReactClassApproved, 'getDefaultsProps was defined on %s, a plain JavaScript class. This is only supported for classes created using React.createClass. Use a static property to define defaultProps instead.', componentName) : void 0;
    }
  }
if (process.env.NODE_ENV !== 'production') {
  ReactInstrumentation.debugTool.onBeginProcessingChildContext();
  try {
    childContext = inst.getChildContext();
  } finally {
    ReactInstrumentation.debugTool.onEndProcessingChildContext();
  }
}

if (childContext) {
  !(typeof Component.childContextTypes === 'object') ? process.env.NODE_ENV !== 'production' ? invariant(false, '%s.getChildContext(): childContextTypes must be defined in order to use getChildContext().', this.getName()) : _prodInvariant('107', this.getName()) : void 0;
  if (process.env.NODE_ENV !== 'production') {
    this._checkContextTypes(Component.childContextTypes, childContext, 'child context');
  }
  for (var name in childContext) {
    !(name in Component.childContextTypes) ? process.env.NODE_ENV !== 'production' ? invariant(false, '%s.getChildContext(): key %s is not defined in childContextTypes.', this.getName() || 'ReactCompositeComponent', name) : _prodInvariant('108', this.getName() || 'ReactCompositeComponent', name) : void 0;
  }
  return _assign({}, currentContext, childContext);
}

return currentContext;

/**
 * Assert that the context types are valid
 *
 * @param {object} typeSpecs Map of context field to a ReactPropType
 * @param {object} values Runtime values that need to be type-checked
 * @param {string} location e.g. "prop", "context", "child context"
 * @private
 */
_checkContextTypes: function (typeSpecs, values, location) {
    if (process.env.NODE_ENV !== 'production') {
      checkReactTypeSpec(typeSpecs, values, location, this.getName(), null, this._debugID);
    }
  },

receiveComponent: function (nextElement, transaction, nextContext) {
  var prevElement = this._currentElement;
  var prevContext = this._context;

  this._pendingElement = null;

  this.updateComponent(transaction, prevElement, nextElement, prevContext, nextContext);
}

/**
 * Perform an update to a mounted component. The componentWillReceiveProps and
 * shouldComponentUpdate methods are called, then (assuming the update isn't
 * skipped) the remaining update lifecycle methods are called and the
 * DOM representation is updated.
 *
 * By default, this implements React's rendering and reconciliation
 * algorithm. Sophisticated clients may wish to override this.
 *
 * @param {ReactReconcileTransaction} transaction
 * @param {ReactElement} prevParentElement
 * @param {ReactElement} nextParentElement
 * @param {ReactComponent} prevComponent
 * @param {ReactComponent} nextComponent
 * @param {ReactTextRef} currentTextRef
 * @internal
 * @overridable
 */
updateComponent: function (transaction, prevParentElement, nextParentElement, prevUnmaskedContext, nextUnmaskedContext) {
  var inst = this._instance;
  !(inst != null) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Attempted to update component `%s` that has already been unmounted (or failed to mount).', this.getName()) : _prodInvariant('136', this.getName()) : void 0;

  var willReceive = false;
  var nextContext;

  // Determine if the context has changed or not
  if (this._context === nextUnmaskedContext) {
    nextContext = inst.context;
  } else {
    nextContext = this._processContext(nextUnmaskedContext);
    willReceive = true;
  }

  var prevProps = prevParentElement.props;
  var nextProps = nextParentElement.props;

  // An update here will schedule an update but immediately set
  // _pendingStateQueue which will ensure that any state updates gets
  // immediately reconciled instead of waiting for the next batch.
  if (willReceive) {
    // An update here will schedule an update but immediately set
    // _pendingStateQueue which will ensure that any state updates gets
    // immediately reconciled instead of waiting for the next batch.
  }

  var nextState = this._processPendingState(nextProps, nextContext);
  var shouldUpdate = true;

  if (this._pendingForceUpdate) {
    if (inst.shouldComponentUpdate) {
      if (instanceComponentWillUpdate) {
        if (process.env.NODE_ENV !== 'production') {
          measureLifeCyclePerf(function () {
            return inst.componentWillUpdate(nextProps, nextState);
          }, this._debugID, 'componentWillUpdateProps');
        } else {
          inst.componentWillUpdate(nextProps, nextState);
        }
      }
    }
  }

  return this._updateBatchNumber = null;
}
(process.env.NODE_ENV !== 'production') {
  shouldUpdate = measureLifeCyclePerf(function () {
    return inst.shouldComponentUpdate(nextProps, nextState, nextContext);
  }, this._debugID,
  'shouldComponentUpdate');
} else {
  shouldUpdate = inst.shouldComponentUpdate(nextProps, nextState, nextContext);
}

if (shouldUpdate === undefined) {
  return false;
}

// Will set 'this.props', 'this.state' and 'this.context'.
this._performComponentUpdate(nextParentElement, nextProps, nextState, nextContext, unmaskedContext);
}

this._currentElement = nextParentElement;
this._context = nextUnmaskedContext;
inst = nextProps;
inst.state = nextState;
inst.context = nextContext;
}

if (process.env.NODE_ENV !== 'production') {
  if (process.env.NODE_ENV !== 'production') {
    shouldUpdate = undefined;
  }

  warning(shouldUpdate !== undefined, '%s.shouldComponentUpdate(): Returned undefined instead of a boolean value. Make sure to return true or false.', this.getName() || 'ReactCompositeComponent') : void 0;
}

this._updateBatchNumber = null;
if (shouldUpdate) {
  this._pendingForceUpdate = false;
  this._updateRenderedComponent(transaction, this._processChildContext(context));
}

this._currentElement = nextParentElement;
this._context = nextUnmaskedContext;
inst = nextProps;
inst.state = nextState;
inst.context = nextContext;
}

this._updateRenderedComponent(transaction, this._processChildContext(context));

if (process.env.NODE_ENV !== 'production') {
  transaction.getReactMountReady().enqueue(function () {
    measureLifeCyclePerf(inst.componentDidUpdate.bind(inst, prevProps, nextState, nextContext), this._debugID,
    'componentDidUpdate');
  }, inst);
}

if (process.env.NODE_ENV !== 'production') {
  transaction.getReactMountReady().enqueue(function () {
    measureLifeCyclePerf(inst.componentDidUpdate.bind(inst, prevProps, prevState, prevContext), this._debugID,
    'componentDidUpdate');
  }, this._processChildContext(context));
}

var _assign = function (obj1, obj2) {
  if (obj2) {
    for (var prop in obj2) {
      if (obj2.hasOwnProperty(prop)) {
        obj1[prop] = obj2[prop];
      }
    }
  } else {
    return obj1;
  }
}

function (props, context) {
  var inst = this._instance;

  var queue = this._pendingStateQueue;
  var replace = this._pendingReplaceState;
  var nextState = _assign({}, replace ? queue[0] : inst.state);
  for (var i = replace ? 1 : 0; i < queue.length; i++) {
    var partial = queue[i];
    _assign(nextState, typeof partial === 'function' ? partial.call(inst, nextState, props, context) : partial);
  }

  return nextState;
}

/**
 * Merges new props and state, notifies delegate methods of update and performs update.
 *
 * @param {ReactElement} nextElement Next element
 * @param {object} nextProps Next public object to set as properties.
 * @param {?object} nextState Next object to set as state.
 * @param {?object} nextContext Next public object to set as context.
 * @param {ReactReconcileTransaction} transaction
 * @param {?object} unmaskedContext
 * @private
 * @final
 */

this._performComponentUpdate: function (nextElement, nextProps, nextState, nextContext, transaction, unmaskedContext) {
  var _this2 = this;

  var inst = this._instance;

  var hasComponentDidUpdate = Boolean(inst.componentDidUpdate);
  var prevProps;
  var prevState;
  var prevContext;
  if (hasComponentDidUpdate) {
    prevProps = inst.props;
    prevState = inst.state;
    prevContext = inst.context;
  }

  if (inst.componentWillUpdate) {
    if (process.env.NODE_ENV !== 'production') {
      measureLifeCyclePerf(inst.componentWillUpdate.bind(inst, nextProps, nextState, nextContext), this._debugID,
      'componentWillUpdate');
    } else {
      inst.componentWillUpdate(nextProps, nextState, nextContext);
    }
  }

  this._currentElement = nextElement;
  this._state = nextState;
  this._context = nextContext;
  inst.props = nextProps;
  inst.state = nextState;
  inst.context = nextContext;

  inst.props = nextProps;
  inst.state = nextState;
  inst.context = nextContext;

  transaction.getReactMountReady().enqueue(function () {
    // Will set 'this.props', 'this.state' and 'this.context'.
    this._performComponentUpdate(nextParentElement, nextProps, nextState, nextContext, unmaskedContext);
  }, this._debugID,
  'shouldComponentUpdate');

  this._updateBatchNumber = null;
  if (shouldUpdate) {
    this._pendingForceUpdate = false;
    this._updateRenderedComponent(transaction, unmaskedContext);
  } else {
    this._currentElement = nextParentElement;
    this._context = nextUnmaskedContext;
    inst = nextProps;
    inst.state = nextState;
    inst.context = nextContext;
  }

  this._updateRenderedComponent(transaction, unmaskedContext);
  if (hasComponentDidUpdate) {
    if (process.env.NODE_ENV !== 'production') {
      transaction.getReactMountReady().enqueue(function () {
        // Will set 'this.props', 'this.state' and 'this.context'.
        this._performComponentUpdate(nextParentElement, nextProps, nextState, nextContext, unmaskedContext);
      }, this._debugID,
      'shouldComponentUpdate');
    } else {
      this._currentElement = nextParentElement;
      this._context = nextUnmaskedContext;
      inst = nextProps;
      inst.state = nextState;
      inst.context = nextContext;
    }
  }

  if (process.env.NODE_ENV !== 'production') {
    measureLifeCyclePerf(inst.componentDidUpdate.bind(inst, prevProps, nextState, nextContext), this._debugID,
    'componentDidUpdate');
  }

  if (hasComponentDidUpdate) {
    if (process.env.NODE_ENV !== 'production') {
      transaction.getReactMountReady().enqueue(function () {
        // Will set 'this.props', 'this.state' and 'this.context'.
        this._performComponentUpdate(nextParentElement, nextProps, nextState, nextContext, unmaskedContext);
      }, this._debugID,
      'shouldComponentUpdate');
    } else {
      this._currentElement = nextParentElement;
      this._context = nextUnmaskedContext;
      inst = nextProps;
      inst.state = nextState;
      inst.context = nextContext;
    }
  } else {
    this._currentElement = nextParentElement;
    this._context = nextUnmaskedContext;
    inst = nextProps;
    inst.state = nextState;
    inst.context = nextContext;
  }

  if (process.env.NODE_ENV !== 'production') {
    measureLifeCyclePerf(inst.componentDidUpdate.bind(inst, prevProps, prevState, prevContext), this._debugID,
    'componentDidUpdate');
  }

  if (process.env.NODE_ENV !== 'production') {
    transaction.getReactMountReady().enqueue(function () {
      // Will set 'this.props', 'this.state' and 'this.context'.
      this._performComponentUpdate(nextParentElement, nextProps, nextState, nextContext, unmaskedContext);
    }, this._debugID,
    'shouldComponentUpdate');
  } else {
    this._currentElement = nextParentElement;
    this._context = nextUnmaskedContext;
    inst = nextProps;
    inst.state = nextState;
    inst.context = nextContext;
  }

  if (process.env.NODE_ENV !== 'production') {
    measureLifeCyclePerf(inst.componentDidUpdate.bind(inst, prevProps, nextState, nextContext), this._debugID,
    'componentDidUpdate');
  }
ReactReconciler.unmountComponent(prevComponentInstance, false);
var nodeType = 
ReactNodeTypes.getType(nextRenderedElement);
var this._renderedNodeType = nodeType;
var child = this._instantiateReactComponent(nextRenderedElement, nodeType !== ReactNodeTypes.EMPTY /* shouldHaveDebugID */);
var this._renderedComponent = child;
var nextMarkup = 
ReactReconciler.mountComponent(child, transaction, this._hostParent, this._hostContainerInfo, 
this._processChildContext(context), debugID);
if (process.env.NODE_ENV !== 'production') {
  if (debugID !== 0) {
    var childDebugIDs = child._debugID !== 0 ? [child._debugID] : [];
    ReactInstrumentation.debugTool.onSetChildren(debugID, childDebugIDs);
  }
}
this._replaceNodeWithMarkup(oldHostNode, nextMarkup, prevComponentInstance);

var nodeType = 
ReactNodeTypes.getType(nextRenderedElement);
this._renderedNodeType = nodeType;
var child = this._instantiateReactComponent(nextRenderedElement, nodeType !== ReactNodeTypes.EMPTY /* shouldHaveDebugID */);
var this._renderedComponent = child;
var nextMarkup = 
ReactReconciler.mountComponent(child, transaction, this._hostParent, this._hostContainerInfo, 
this._processChildContext(context), debugID);
if (process.env.NODE_ENV !== 'production') {
  if (debugID !== 0) {
    var childDebugIDs = child._debugID !== 0 ? [child._debugID] : [];
    ReactInstrumentation.debugTool.onSetChildren(debugID, childDebugIDs);
  }
}
this._replaceNodeWithMarkup(oldHostNode, nextMarkup, prevComponentInstance);

ReactComponentEnvironment.replaceNodeWithMarkup(oldHostNode, nextMarkup, prevInstance);

ReactReconciler.unmountComponent(prevComponentInstance, false);
var nodeType = 
ReactNodeTypes.getType(nextRenderedElement);
this._renderedNodeType = nodeType;
var child = this._instantiateReactComponent(nextRenderedElement, nodeType !== ReactNodeTypes.EMPTY /* shouldHaveDebugID */);
var this._renderedComponent = child;
var nextMarkup = 
ReactReconciler.mountComponent(child, transaction, this._hostParent, this._hostContainerInfo, 
this._processChildContext(context), debugID);
if (process.env.NODE_ENV !== 'production') {
  if (debugID !== 0) {
    var childDebugIDs = child._debugID !== 0 ? [child._debugID] : [];
    ReactInstrumentation.debugTool.onSetChildren(debugID, childDebugIDs);
  }
}
this._replaceNodeWithMarkup(oldHostNode, nextMarkup, prevComponentInstance);

ReactComponentEnvironment.replaceNodeWithMarkup(oldHostNode, nextMarkup, prevInstance);

ReactCurrentOwner.current = this;
try {
  var renderedElement = 
  this._renderValidatedComponentWithoutOwnerOrContext();
} finally {
  ReactCurrentOwner.current = 
  null;
}
else {
  var renderedElement = 
  this._renderValidatedComponentWithoutOwnerOrContext();
}

ReactCurrentOwner.current = this;
try {
  var renderedElement = 
  this._renderValidatedComponentWithoutOwnerOrContext();
} finally {
  ReactCurrentOwner.current = 
  null;
}
else {
  var renderedElement = 
  this._renderValidatedComponentWithoutOwnerOrContext();
}

ReactCurrentOwner.current = this;
try {
  var renderedElement = 
  this._renderValidatedComponentWithoutOwnerOrContext();
} finally {
  ReactCurrentOwner.current = 
  null;
}
else {
  var renderedElement = 
  this._renderValidatedComponentWithoutOwnerOrContext();
}
@internal
  *\n  * getPublicInstance: function () {\n    var inst = this._instance;\n    if (this._compositeType === CompositeTypes.StatelessFunctional) {\n      return null;\n    } return inst;\n  }\n  // Stub\n
  instantiateReactComponent: null;\n
  publicInstance: function () {\n    var inst = this._instance;\n    if (this._compositeType === CompositeTypes.StatelessFunctional) {\n      return null;\n    }\n    return inst;\n  },

  // Stub

  _instantiateReactComponent: null,
};

module.exports = ReactCompositeComponent;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/ReactCompositeComponent.js
// module id = 814\n// module chunks = 0,"/***n * Copyright (c) 2013-present, Facebook, Inc.\n * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.\n * The Symbol used to tag the ReactElement type. If there is no native Symbol\n * nor polyfill, then a plain number is used for performance.\n *\n * var React_ELEMENT_TYPE = typeof Symbol === 'function' && Symbol\n * [ 'for' ] && Symbol[ 'for' ] ( 'react.element' ) || 0xeac7;\n *\n * module.exports = React_ELEMENT_TYPE;\n *\n * \n * @internal
 *  */

{\n traverseAllChildren(children, function (traverseContext, child, name) {\n
return
flattenSingleChildIntoContext(traverseContext, child, name, selfDebugID);\n }, result);\n } else {\n
traverseAllChildren(children, flattenSingleChildIntoContext, result);\n }\n return result;\n}\n\nmodule.exports =
flattenChildren;\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/react-dom/lib/flattenChildren.js\n//
module id = 818\n// module chunks = 0","/**\n * Copyright (c) 2014-present, Facebook, Inc.\n *\n * This source
code is licensed under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n *\n
*/\n\n'use strict';\n\nvar _assign = require('object-assign');\n\nvar PooledClass = require('./PooledClass');\nvar
Transaction = require('./Transaction');\nvar ReactInstrumentation = require('./ReactInstrumentation');\nvar
ReactServerUpdateQueue = require('./ReactServerUpdateQueue');\n\n/**\n * Executed within the scope of the
`Transaction` instance. Consider these as\n * being member methods, but with an implied ordering while being
isolated from\n * each other.\n */\nvar TRANSACTION_WRAPPERS = [];\n\nif (process.env.NODE_ENV !==
'production') {\n TRANSACTION_WRAPPERS.push({\n initialize:
ReactInstrumentation.debugTool.onBeginFlush,\n close: ReactInstrumentation.debugTool.onEndFlush\n
});\n}\n\nvar noopCallbackQueue = {\n enqueue: function () {}\n};\n\n/**\n * @class
ReactServerRenderingTransaction\n * @param {boolean} renderToStaticMarkup\n */\nfunction
ReactServerRenderingTransaction(renderToStaticMarkup) {\n this.reinitializeTransaction();\n
this.renderToStaticMarkup = renderToStaticMarkup;\n this.useCreateElement = false;\n this.updateQueue = new
ReactServerUpdateQueue(this);\n}\n\nvar Mixin = {\n /**\n * @see Transaction\n * @abstract\n * @final\n *
@return {array} Empty list of operation wrap procedures.\n */\n getTransactionWrappers: function () {\n return
TRANSACTION_WRAPPERS;\n },\n\n /**\n * @return {object} The queue to collect `onDOMReady`
callbacks with.\n */\n getReactMountReady: function () {\n return noopCallbackQueue;\n },\n\n /**\n *
@return {object} The queue to collect React async events.\n */\n getUpdateQueue: function () {\n return
this.updateQueue;\n },\n\n /**\n * `PooledClass` looks for this, and will invoke this before allowing this\n *
instance to be reused.\n */\n destructor: function () {},\n\n checkpoint: function () {},\n\n rollback: function ()
{}\n};\n\n_assign(ReactServerRenderingTransaction.prototype, Transaction,
Mixin);\n\nPooledClass.addPoolingTo(ReactServerRenderingTransaction);\n\nmodule.exports =
ReactServerRenderingTransaction;\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/reactdom/lib/ReactServerRenderingTransaction.js\n// module id = 819\n// module chunks = 0","/**\n * Copyright (c)
2015-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE
file in the root directory of this source tree.\n *\n * \n */\n\n'use strict';\n\nfunction _classCallCheck(instance,
Constructor) { if (!(instance instanceof Constructor)) { throw new TypeError(\"Cannot call a class as a function\"); }
}\n\nvar ReactUpdateQueue = require('./ReactUpdateQueue');\n\nvar warning =
require('fbjs/lib/warning');\n\nfunction warnNoop(publicInstance, callerName) {\n if (process.env.NODE_ENV !==
'production') {\n var constructor = publicInstance.constructor;\n process.env.NODE_ENV !== 'production' ?
warning(false, '%s(...): Can only update a mounting component. ' + 'This usually means you called %s() outside
componentWillMount() on the server. ' + 'This is a no-op. Please check the code for the %s component.',
callerName, callerName, constructor && (constructor.displayName || constructor.name) || 'ReactClass') : void 0;\n
}\n}\n\n/**\n * This is the update queue used for server rendering.\n * It delegates to ReactUpdateQueue while
server rendering is in progress and\n * switches to ReactNoopUpdateQueue after the transaction has completed.\n *
@class ReactServerUpdateQueue\n * @param {Transaction} transaction\n */\n\nvar ReactServerUpdateQueue =
function () {\n function ReactServerUpdateQueue(transaction) {\n _classCallCheck(this,
ReactServerUpdateQueue);\n\n this.transaction = transaction;\n }\n\n /**\n * Checks whether or not this
composite component is mounted.\n * @param {ReactClass} publicInstance The instance we want to test.\n *
@return {boolean} True if mounted, false otherwise.\n * @protected\n * @final\n */\n\n\n
ReactServerUpdateQueue.prototype.isMounted = function isMounted(publicInstance) {\n return false;\n };\n\n
/**\n * Enqueue a callback that will be executed after all the pending updates\n * have processed.\n *\n *
@param {ReactClass} publicInstance The instance to use as `this` context.\n * @param {?function} callback
Called after state is updated.\n * @internal\n */\n\n\n ReactServerUpdateQueue.prototype.enqueueCallback =

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function enqueueCallback(publicInstance, callback, callerName) {
  if (this.transaction.isInTransaction()) {
    ReactUpdateQueue.enqueueCallback(publicInstance, callback, callerName);
  } else {
    // * Callbacks are never scheduled directly by the caller
    // of `callSchedule` (so that it doesn't leak on
    // `ReactFlushScheduler` destruction).
    enqueueCallback(publicInstance, callback, callerName);
  }
}

/**
 * Forces an update. This should only be invoked when it is known with
 * certainty that we are **not** in a DOM transaction.
 * You may want to call this when you know that some deeper aspect of the
 * component's state has changed but `setState` was not called.
 * This will not invoke `shouldComponentUpdate`, but it will invoke
 * `componentWillUpdate` and `componentDidUpdate`.
 * @param {ReactClass} publicInstance The instance that should rerender.
 * @return {boolean} true if the component is force updated.
 * @protected
 */

ReactServerUpdateQueue.prototype.enqueueForceUpdate = function enqueueForceUpdate(publicInstance) {
  if (this.transaction.isInTransaction()) {
    ReactUpdateQueue.enqueueForceUpdate(publicInstance);
  } else {
    warnNoop(publicInstance, 'forceUpdate');
  }
}

/**
 * Replaces all of the state. Always use this or `setState` to mutate state.
 * You should treat `this.state` as immutable.
 * There is no guarantee that `this.state` will be immediately updated, so
 * accessing `this.state` after calling this method may return the old
 * value.
 * @param {ReactClass} publicInstance The instance that should rerender.
 * @param {object|function} completeState Next state.
 * @return {boolean} true if the component is replace updated.
 * @protected
 */

ReactServerUpdateQueue.prototype.enqueueReplaceState = function enqueueReplaceState(publicInstance, completeState) {
  if (this.transaction.isInTransaction()) {
    ReactUpdateQueue.enqueueReplaceState(publicInstance, completeState);
  } else {
    warnNoop(publicInstance, 'replaceState');
  }
}

/**
 * Sets a subset of the state. This only exists because _pendingState
 * is internal. This provides a merging strategy that is not available to deep
 * properties which is confusing. TODO: Expose pendingState or don't use it
 * during the merge.
 * @param {ReactClass} publicInstance The instance that should rerender.
 * @param {object|function} partialState Next partial state to be
 * merged with state.
 * @return {boolean} true if the component is set state updated.
 * @protected
 */

ReactServerUpdateQueue.prototype.enqueueSetState = function enqueueSetState(publicInstance, partialState) {
  if (this.transaction.isInTransaction()) {
    ReactUpdateQueue.enqueueSetState(publicInstance, partialState);
  } else {
    warnNoop(publicInstance, 'setState');
  }
}

return ReactServerUpdateQueue;
}();

module.exports = ReactServerUpdateQueue;

// WEBPACK FOOTER
// module id = 820
// module chunks = 0
require('./reactProdInvariant');

var invariant = require('fbjs/lib/invariant');

/**
 * Return the lowest common ancestor of A and B, or null if they are in
 * different trees.
 */
function getLowestCommonAncestor(instA, instB) {
  !('_hostNode' in instA) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'getNodeFromInstance: Invalid argument.') : _prodInvariant('33') : void 0;
  !('_hostNode' in instB) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'getNodeFromInstance: Invalid argument.') : _prodInvariant('33') : void 0;

  var depthA = 0;
  for (var tempA = instA; tempA; tempA = tempA._hostParent) {
    depthA++;
  }

  var depthB = 0;
  for (var tempB = instB; tempB; tempB = tempB._hostParent) {
    depthB++;
  }

  if (A is deeper, crawl up.
  while (depthA - depthB > 0) {
    instA = instA._hostParent;
  }

  if (B is deeper, crawl up.
  while (depthB - depthA > 0) {
    instB = instB._hostParent;
  }

  // Walk in lockstep until we find a match.
  while (depthA - depthB) {
    instA = instA._hostParent;
    depthA--;
  }

  while (depthB - depthA) {
    instB = instB._hostParent;
    depthB--;
  }

  // Walk in lockstep until we find a match.
  var i;
  for (i = path.length; i-- > 0;) {
    fn(path[i], 'captured', arg);
  }

  for (i = pathTo.length; i-- > 0;) {
    fn(pathTo[i], 'bubbled', argTo);
  }
}

module.exports = {
  isAncestor: isAncestor,
  getLowestCommonAncestor: getLowestCommonAncestor,
  getParentInstance: getParentInstance,
  traverseTwoPhase: traverseTwoPhase,
  traverseEnterLeave: traverseEnterLeave
};
ReactUpdates.flushBatchedUpdates.bind(ReactUpdates));

var TRANSACTION_WRAPPERS =
[FLUSH_BATCHED_UPDATES, RESET_BATCHED_UPDATES];

function ReactDefaultBatchingStrategyTransaction() {
  this.reinitializeTransaction();
  var transaction = new ReactDefaultBatchingStrategyTransaction();

  var alreadyBatchingUpdates = ReactDefaultBatchingStrategy.isBatchingUpdates;

  ReactDefaultBatchingStrategy.isBatchingUpdates = true;

  // The code is written this way to avoid extra allocations if (alreadyBatchingUpdates)
  // return callback(a, b, c, d, e)
  else return transaction.perform(callback, null, a, b, c, d, e);

  var transaction = new ReactDefaultBatchingStrategyTransaction();

  var ReactDefaultBatchingStrategy = {
    isBatchingUpdates: false,

    /**
     * Call the provided function in a context within which calls to `setState`
     * and friends are batched such that components aren't updated unnecessarily.
     */
    batchedUpdates: function (callback, a, b, c, d, e) {
      var alreadyBatchingUpdates = ReactDefaultBatchingStrategy.isBatchingUpdates;

      ReactDefaultBatchingStrategy.isBatchingUpdates = true;

      if (alreadyBatchingUpdates) {
        return callback(a, b, c, d, e);
      } else {
        return transaction.perform(callback, null, a, b, c, d, e);
      }
    }
  }

  module.exports = ReactDefaultBatchingStrategy;

  // Used to store ancestor hierarchy in top level callback
  function TopLevelCallbackBookKeeping(topLevelType, nativeEvent) {
    this.topLevelType = topLevelType;
    this.nativeEvent = nativeEvent;
    this.ancestors = [];
  }
  assign(TopLevelCallbackBookKeeping.prototype, {
    destructor: function () {
      this.topLevelType = null;
      this.nativeEvent = null;
      this.ancestors.length = 0;
    }
  });
  PooledClass.addPoolingTo(TopLevelCallbackBookKeeping, PooledClass.twoArgumentPooler);

  function handleTopLevelImpl(bookKeeping) {
    var nativeEventTarget = getEventTarget(bookKeeping.nativeEvent);
    var targetInst = ReactDOMComponentTree.getClosestInstanceFromNode(nativeEventTarget);

    for (var i = 0; i < bookKeeping.ancestors.length; i++) {
      targetInst = bookKeeping.ancestors[i];
      ReactEventListener._handleTopLevel(bookKeeping.topLevelType, targetInst, bookKeeping.nativeEvent, getEventTarget(bookKeeping.nativeEvent));
    }

    return targetInst;
  }

  function scrollValueMonitor(cb) {
    var scrollPosition = getUnboundedScrollPosition(window);
    cb(scrollPosition);
  }

  var ReactEventListener = {
    _enabled: true,
    _handleTopLevel: null,
    WINDOW_HANDLE: ExecutionEnvironment.canUseDOM ? window : null,
    setHandleTopLevel: function (handleTopLevel) {
      ReactEventListener._handleTopLevel = handleTopLevel;
    },
    setEnabled: function (enabled) {
      ReactEventListener._enabled = enabled;
      if (enabled) {
        scrollValueMonitor = scrollValueMonitor.bind(null);
      } else {
        scrollValueMonitor = null;
      }
    }
  }

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An object with a remove function which will forcefully remove the listener.

```javascript
@internal
*An trapBubbledEvent: function (topLevelType, handlerBaseName, element) { if (element) { return null; } return EventListener.listen(element, handlerBaseName, ReactEventListener.dispatchEvent.bind(null, topLevelType)); }

@internal
*An trapCapturedEvent: function (topLevelType, handlerBaseName, element) { if (!element) { return null; } return EventListener.capture(element, handlerBaseName, ReactEventListener.dispatchEvent.bind(null, topLevelType)); }

monitorScrollValue: function (refresh) { var callback = scrollValueMonitor.bind(null, refresh); EventListener.listen(window, 'scroll', callback); }

dispatchEvent: function (topLevelType, nativeEvent) {
  if (!ReactEventListener._enabled) {
    return;
  }

  var bookKeeping = TopLevelCallbackBookKeeping.getPooled(topLevelType, nativeEvent);
  try { // Event queue being processed in the same cycle allows 
    ReactUpdates.batchedUpdates(handleTopLevelImpl, bookKeeping);
  } finally {
    TopLevelCallbackBookKeeping.release(bookKeeping);
  }
}
```

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```
var scrollValueMonitor = function (refresh) { var callback = scrollValueMonitor.bind(null, refresh); EventListener.listen(window, 'scroll', callback); }
```

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```
var makeUnboundedScrollPosition = function (scrollable) {
  if (scrollable.Window && scrollable instanceof scrollable.Window) {
    return {
      x: scrollable.pageXOffset || scrollable.document.documentElement.scrollLeft,
      y: scrollable.pageYOffset || scrollable.document.documentElement.scrollTop
    };
  }
  return {
    x: scrollable.scrollLeft,
    y: scrollable.scrollTop
  };
}
```

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```
var DOMProperty = require('./DOMProperty');
var EventPluginHub = require('./EventPluginHub');
var EventPluginUtils = require('./EventPluginUtils');
var ReactComponentEnvironment = require('./ReactComponentEnvironment');
var ReactEmptyComponent = require('./ReactEmptyComponent');
var ReactBrowserEventEmitter = require('./ReactBrowserEventEmitter');
var ReactHostComponent = require('./ReactHostComponent');
var ReactUpdates = require('./ReactUpdates');
```

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```
var EventPluginHub = require('./EventPluginHub');
var EventPluginUtils = require('./EventPluginUtils');
var ReactComponentEnvironment = require('./ReactComponentEnvironment');
var ReactEmptyComponent = require('./ReactEmptyComponent');
var ReactBrowserEventEmitter = require('./ReactBrowserEventEmitter');
var ReactHostComponent = require('./ReactHostComponent');
var ReactUpdates = require('./ReactUpdates');
```

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```
var EventPluginHub = require('./EventPluginHub');
var EventPluginUtils = require('./EventPluginUtils');
var ReactComponentEnvironment = require('./ReactComponentEnvironment');
```

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(currently selected text

is input) is not disturbed by performing the transaction.

```javascript
SELECTION_RESTORATION = {
  initialize: ReactInputSelection.getSelectionInformation,
  close: ReactInputSelection.restoreSelection
};

EVENT_SUPPRESSION = {
  initialize: function () {
    var currentlyEnabled = ReactBrowserEventEmitter.isEnabled();
    ReactBrowserEventEmitter.setEnabled(false);
  },
  close: ReactBrowserEventEmitter.setEnabled(previouslyEnabled)
};

ON_DOM_READY_QUEUEING = {
  initialize: function () {
    this.reactMountReady.reset();
  },
  close: function () {
    this.reactMountReady.notifyAll();
  }
};

TRANSACTION_WRAPPERS = [
  SELECTION_RESTORATION,
  EVENT_SUPPRESSION,
  ON_DOM_READY_QUEUEING
];

ReactReconcileTransaction = ReactReconcileTransaction;

PooledClass.addPoolingTo(ReactReconcileTransaction);
```

```javascript
module.exports = ReactReconcileTransaction;
```
require('fbjs/lib/ExecutionEnvironment');

var getNodeForCharacterOffset = require('./getNodeForCharacterOffset');
var getTextContentAccessor = require('./getTextContentAccessor');

/**
 * While `isCollapsed` is available on the Selection object and 
 * `collapsed` is available on the Range object, IE11 sometimes gets them wrong.

 * If the anchor/focus nodes and offsets are the same, the range is collapsed.
 * `isCollapsed` is sometimes wrong in modern browsers.
 */
function isCollapsed(anchorNode, anchorOffset, focusNode, focusOffset) {
  return anchorNode === focusNode && anchorOffset === focusOffset;
}

/**
 * Get the appropriate anchor and focus node/offset pairs for IE.
 * The catch here is that IE's selection API doesn't provide information about whether the selection is forward or backward, so we have to behave as though it's always forward.
 */
function getIEOffsets(node) {
  var selection = document.selection;
  var selectedRange = selection.createRange();
  var selectedLength = selectedRange.text.length;

  // Duplicate selection so we can move range without breaking user selection.
  var start = selectedRange.duplicate();
  start.moveToElementText(node);
  start.setEndPoint('EndToStart', selectedRange);

  var startOffset = start.text.length;
  var endOffset = startOffset + selectedLength;

  return {
    start: startOffset,
    end: endOffset
  };
}

/**
 * @param {DOMElement|DOMTextNode} node
 * @return {?object}
 */
function getModernOffsets(node) {
  var selection = window.getSelection && window.getSelection();

  if (!selection || selection.rangeCount === 0) {
    return null;
  }

  var anchorNode = selection.anchorNode;
  var anchorOffset = selection.anchorOffset;
  var focusNode = selection.focusNode;
  var focusOffset = selection.focusOffset;

  // In Firefox, range.startContainer and range.endContainer can be "anonymous" divs, e.g. the up/down buttons on an <input type="number">. Anonymous divs do not seem to expose properties, triggering a "Permission denied" error if any of its properties are accessed. The only seemingly possible way to avoid errors is to access a property that typically works for non-anonymous divs and catch any error that may otherwise arise. See:

  // https://bugzilla.mozilla.org/show_bug.cgi?id=208427
  try {
    /* eslint-disable no-unused-expressions */
    anchorNode.nodeType;
    focusNode.nodeType;
    /* eslint-enable no-unused-expressions */
  } catch (e) {
    return null;
  }

  // If the node and offset values are the same, the selection is collapsed.
  var isSelectionCollapsed = isCollapsed(selection.anchorNode, selection.anchorOffset, selection.focusNode, selection.focusOffset);

  var rangeLength = isSelectionCollapsed ? 0 : currentRange.toString().length;

  var tempRange = currentRange.cloneRange();
  tempRange.selectNodeContents(node);
  tempRange.setEnd(currentRange.startContainer, currentRange.startOffset);

  var start = isTempRangeCollapsed ? 0 : tempRange.toString().length;
  var end = start + rangeLength;

  // Detect whether the selection is backward.
  var isBackward = detectionRange.collapsed;

  return {
    start: isBackward ? end : start,
    end: isBackward ? start : end
  };
}

/**
 * In modern non-IE browsers, we can support both forward and backward selections.
 */
function setModernOffsets(node, offsets) {
  if (!window.getSelection) {
    return;
  }

  var selection = window.getSelection();
  var currentRange = selection.createRange();
  var start = currentRange.startContainer,
  var end = currentRange.endContainer;
  var offset = currentRange.toString().length;

  if (offsets.end === undefined)
    return;

  if (offsets.start !== undefined)
    return;

  if (offsets.start !== undefined)
    return;

  if (offsets.end !== undefined)
    return;

  // Detect whether the selection is backward.
  var isBackward = detectionRange.collapsed;

  return {
    start: isBackward ? end : start,
    end: isBackward ? start : end
  };
}

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var start = Math.min(offsets.start, length);
var end = offsets.end !== undefined ? start : Math.min(offsets.end, length);
/* IE 11 uses modern selection, but doesn't support the extend method. */
// Flip backward selections, so we can set with a single range.
if (!selection.extend && start > end) {
  var temp = end;
  end = start;
  start = temp;
}
var startMarker = getNodeForCharacterOffset(node, start);
var endMarker = getNodeForCharacterOffset(node, end);
if (startMarker && endMarker) {
  var range = document.createRange();
  range.setStart(startMarker.node, startMarker.offset);
  selection.removeAllRanges();
  if (start > end) {
    selection.addRange(range);
    selection.extend(endMarker.node, endMarker.offset);
  } else {
    range.setEnd(endMarker.node, endMarker.offset);
    selection.addRange(range);
  }
}

var useIEOffsets = ExecutionEnvironment.canUseDOM && 'selection' in document && !('getSelection' in window);

var ReactDOMSelection = {
  getOffsets: useIEOffsets ? getIEOffsets : getModernOffsets,
  setOffsets: useIEOffsets ? setIEOffsets : setModernOffsets
};

module.exports = ReactDOMSelection;

function getLeafNode(node) {
  while (node && node.firstChild) {
    node = node.firstChild;
  }
  return node;
}

function getSiblingNode(node) {
  while (node) {
    if (node.nextSibling) {
      return node.nextSibling;
    }
    node = node.parentNode;
  }
}

function getNodeForCharacterOffset(root, offset) {
  var node = getLeafNode(root);
  var nodeStart = 0;
  var nodeEnd = 0;

  while (node) {
    if (node.nodeType === 3) {
      nodeEnd = nodeStart + node.textContent.length;
      if (nodeStart <= offset && nodeEnd >= offset) {
        return {
          node: node,
          offset: offset - nodeStart
        };
      }
      nodeStart = nodeEnd;
    }
    node = getLeafNode(getSiblingNode(node));
  }
}

module.exports = getNodeForCharacterOffset;

function containsNode(outerNode, innerNode) {
  if (!outerNode || !innerNode) {
    return false;
  } else if (outerNode === innerNode) {
    return true;
  } else if (isTextNode(outerNode)) {
    return false;
  } else if ('contains' in outerNode) {
    return outerNode.contains(innerNode);
  } else if (outerNode.compareDocumentPosition(innerNode) & 16) {
    return true;
  } else {
    return false;
  }
}

module.exports = containsNode;

function isTextNode(object) {
  return isNode(object) && object.nodeType == 3;
}

module.exports = isTextNode;

/*eslint-disable no-bitwise */

function getNodeForCharacterOffset(node, offset) {
  var node = getLeafNode(node);
  var nodeStart = 0;
  var nodeEnd = 0;

  while (node) {
    if (node.nodeType === 3) {
      nodeEnd = nodeStart + node.textContent.length;
      if (nodeStart <= offset && nodeEnd >= offset) {
        return {
          node: node,
          offset: offset - nodeStart
        };
      }
      nodeStart = nodeEnd;
    }
    node = getLeafNode(getSiblingNode(node));
  }
}

module.exports = getNodeForCharacterOffset;

function containsNode(outerNode, innerNode) {
  if (!outerNode || !innerNode) {
    return false;
  } else if (outerNode === innerNode) {
    return true;
  } else if (isTextNode(outerNode)) {
    return false;
  } else if ('contains' in outerNode) {
    return outerNode.contains(innerNode);
  } else if (outerNode.compareDocumentPosition(innerNode) & 16) {
    return true;
  } else {
    return false;
  }
}

module.exports = containsNode;

function isTextNode(object) {
  return isNode(object) && object.nodeType == 3;
}

module.exports = isTextNode;
LICENSE file in the root directory of this source tree.

```javascript
/**
 * @param {*} object The object to check.
 * @return {boolean} Whether or not the object is a DOM node.
 */

function isNode(object) {
  var doc = object ? object.ownerDocument || object : document;
  var defaultView = doc.defaultView || window;
  return !!(object && (typeof defaultView.Node === 'function' ? object instanceof defaultView.Node : typeof object === 'object' && typeof object.nodeType === 'number' && typeof object.nodeName === 'string'));
}

module.exports = isNode;
```

// WEBPACK FOOTER −// module.id = 833
// module.chunks = 0
```
```
changed.

```javascript
function constructSelectEvent(nativeEvent, nativeEventTarget) {
  // Ensure we have the right element, and that the user is not dragging a
  // selection (this matches native `select` event behavior). In HTML5, select
  // fires only on input and textarea thus if there's no focused element we
  // won't dispatch. if (mouseDown || activeElement == null ||
  activeElement != getActiveElement()) { return return null; }
  // Only fire when selection has actually changed.
  var currentSelection = getSelection(activeElement);
  if (!lastSelection || !shallowEqual(lastSelection, currentSelection)) {
    lastSelection = currentSelection;
    var syntheticEvent = SyntheticEvent.getPool(nativeEvent, activeElementInst, nativeEventTarget);
    syntheticEvent.type = 'select';
    syntheticEvent.target = activeElement;
    EventPropagators.accumulateTwoPhaseDispatches(syntheticEvent);
    return syntheticEvent;
  }
  return null;
}
```

```javascript
/**
 * This plugin creates an `onSelect` event that normalizes select events
 * across form elements.
 *
 * Supported elements are:
 * - input (see `isTextInputElement`)
 * - textarea
 * - contentEditable
 *
 * This differs from native browser implementations in the following ways:
 * - Fires on contentEditable fields as well as inputs.
 * - Fires for collapsed selection.
 * - Fires after user input.
 */
var SelectEventPlugin = {
  eventTypes: eventTypes,

  extractEvents: function (topLevelType, targetInst, nativeEvent, nativeEventTarget) {
    if (!hasListener) {
      return null;
    }
    var targetNode = targetInst ?
      ReactDOMComponentTree.getNodeFromInstance(targetInst) : window;
    switch (topLevelType) {
      // Track the input node that has focus.
      case 'topFocus':
        if (isTextInputElement(targetNode) ||
          targetNode.contentEditable === 'true') {
          activeElement = targetNode;
          activeElementInst = targetInst;
          lastSelection = null;
          break;
        // Don't fire the event while the user is dragging.
        this matches the in // semantics of the native select event.
        case 'topMouseDown':
          mouseDown = true;
          break;
        // Chrome and IE fire non-standard event when selection is changed (and
        // sometimes when it hasn't). IE's event fires out of order with respect
        // to key and input events on deletion, so we discard it.
        case 'topSelectionChange':
          if (skipSelectionChangeEvent) {
            break;
          }
          // falls through case 'topKeyUp':
          case 'topKeyUp':
            return constructSelectEvent(nativeEvent, nativeEventTarget);
    }
  },

  didPutListener: function (inst, registrationName, listener) {
    if (registrationName === 'onSelect') {
      hasListener = true;
    }
  }
};
```

```javascript
module.exports = SelectEventPlugin;
```
phasedRegistrationNames: {"bubbled": 'onAbort', "captured": 'onAbortCapture'},

dependencies: ['topAbort'],

topLevelEventsToDispatchConfig = {"topAbort": {
sameConfig | top Abort | 

forEach(function(event) {
  var capitalizedEvent = event[0].toUpperCase() + event.slice(1);
  var onEvent = 'on' + capitalizedEvent;
  var topEvent = 'top' + capitalizedEvent;

  var type = {
    phasedRegistrationNames: {
      bubbled: onEvent,
      captured: onEvent + 'Capture'
    },
    dependencies:
      dependencies: [topEvent]
    }
  eventTypes[event] = type;
  topLevelEventsToDispatchConfig[topEvent] = type;
});

var onClickListeners = {};

function getDictionaryKey(inst) {
  return '.' + inst._rootNodeID;
}

function isInteractive(tag) {
  return tag === 'button' || tag === 'input' || tag === 'select' || tag === 'textarea';
}

var SimpleEventPlugin = {
  eventTypes: eventTypes,

  extractEvents: function(topLevelType, targetInst, nativeEvent, nativeEventTarget) {
    var dispatchConfig = topLevelEventsToDispatchConfig[topLevelType];
    if (!dispatchConfig) {
      return
    }
    var EventConstructor = null;
    switch (topLevelType) {
      case 'topAbort':
      case 'topCanPlay':
      case 'topCanPlayThrough':
      case 'topDurationChange':
      case 'topEmptied':
      case 'topEncrypted':
      case 'topEnded':
      case 'topError':
      case 'topInput':
      case 'topInvalid':
      case 'topLoad':
      case 'topLoadedData':
      case 'topLoadMetadata':
      case 'topLoadStart':
      case 'topPause':
      case 'topPlay':
      case 'topPlaying':
      case 'topProgress':
      case 'topRateChange':
      case 'topSeeked':
      case 'topSeeking':
      case 'topStalled':
      case 'topSubmit':
      case 'topSuspend':
      case 'topTimeUpdate':
      case 'topVolumeChange':
      case 'topWaiting':
        EventConstructor = SyntheticEvent;
        break;
      case 'topKeyPress':
        if (getEventCharCode(nativeEvent) === 0) {
          return
        }
      /* falls through */
      case 'topKeyDown':
      case 'topKeyUp':
        EventConstructor = SyntheticKeyboardEvent;
        break;
      case 'topBlur':
      case 'topFocus':
        EventConstructor = SyntheticFocusEvent;
        break;
      case 'topClick':
        if (nativeEvent.button === 2) {
          return
        }
      /* falls through */
      case 'topDoubleClick':
      case 'topMouseDown':
      case 'topMouseMove':
      case 'topMouseUp':
      case 'topMouseOut':
      case 'topMouseOver':
        EventConstructor = SyntheticMouseEvent;
        break;
      case 'topDrag':
      case 'topDragEnd':
      case 'topDragEnter':
      case 'topDragLeave':
      case 'topDragOver':
      case 'topDrop':
        EventConstructor = SyntheticDragEvent;
        break;
      case 'topTouchCancel':
      case 'topTouchEnd':
      case 'topTouchMove':
      case 'topTouchStart':
        EventConstructor = SyntheticTouchEvent;
        break;
      case 'topAnimationEnd':
      case 'topAnimationIteration':
      case 'topAnimationStart':
        EventConstructor = SyntheticAnimationEvent;
        break;
      case 'topTransitionEnd':
      case 'topTransitionStart':
        EventConstructor = SyntheticTransitionEvent;
        break;
      case 'topScroll':
        EventConstructor = SyntheticUIEvent;
        break;
      case 'topWheel':
        EventConstructor = SyntheticWheelEvent;
        break;
      case 'topCopy':
      case 'topCut':
      case 'topPaste':
        EventConstructor = SyntheticClipboardEvent;
        break;
      /* falls through */
      case 'topEvent':
        EventConstructor = getPooled(dispatchConfig, targetInst, nativeEvent, nativeEventTarget);
      case 'topEvent':
        EventConstructor = getPooled(dispatchConfig, targetInst, nativeEvent, nativeEventTarget);
    }
    !EventConstructor ? process.env.NODE_ENV !== 'production' ? invariant(false, 'SimpleEventPlugin: Unhandled event type, `%s`.', topLevelType) : _prodInvariant('86', topLevelType) : void 0;
    var event = EventConstructor.getPooled(dispatchConfig, targetInst, nativeEvent, nativeEventTarget);
// Mobile Safari does not fire properly bubble click events on non-interactive elements, which means delegated click listeners do not fire. The workaround for this bug involves attaching an empty click listener on the target node.


if (registrationName === 'onClick' && !isInteractive(inst._tag)) {

    var key = getDictionaryKey(inst);

    var node = ReactDOMComponentTree.getNodeFromInstance(inst);

    if (!onClickListeners[key]) {

        onClickListeners[key] = EventListener.listen(node, 'click', emptyFunction);

    }

}

if (registrationName === 'onClick' && !isInteractive(inst._tag)) {

    var key = getDictionaryKey(inst);

    delete onClickListeners[key].remove();

    delete onClickListeners[key];

}

return event;

// Mobile Safari does not fire properly bubble click events on non-interactive elements, which means delegated click listeners do not fire. The workaround for this bug involves attaching an empty click

// listener on the target node.


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```
var SyntheticUIEvent = require('./SyntheticUIEvent');

var getEventCharCode = require('./getEventCharCode');

var getEventKey = require('./getEventKey');

var getEventModifierState = require('./getEventModifierState');

/**
 * @interface
 *
 * KeyboardEvent
 * @see http://www.w3.org/TR/DOM-Level-3-Events/
 */

var KeyboardEventInterface = {
  key: getEventKey,
  location: null,
  ctrlKey: null,
  shiftKey: null,
  altKey: null,
  metaKey: null,
  repeat: null,
  locale: null,
  getModifierState: getEventModifierState,
  // Legacy Interface
  charCode: function (event) {
    // `charCode` is the result of a KeyPress event and represents the value of the actual printable character.
    if (event.type === 'keypress') {
      return getEventCharCode(event);
    }
    return 0;
  },
  keyCode: function (event) {
    // `keyCode` is the result of a KeyDown/Up event and represents the value of the physical keyboard key.
    if (event.type === 'keydown' || event.type === 'keyup') {
      return event.keyCode;
    }
    return 0;
  },
  which: function (event) {
    // `which` is an alias for either `keyCode` or `charCode` depending on the type of the event.
    if (event.type === 'keypress') {
      return getEventCharCode(event);
    }
    if (event.type === 'keydown' || event.type === 'keyup') {
      return event.keyCode;
    }
    return 0;
  }
};

/**
 * @param {object} dispatchConfig Configuration used to dispatch this event.
 * @param {string} dispatchMarker Marker identifying the event target.
 * @param {object} nativeEvent Native browser event.
 * @extends {SyntheticUIEvent}
 */

function SyntheticKeyboardEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticUIEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget);
}

SyntheticUIEvent.augmentClass(SyntheticKeyboardEvent, KeyboardEventInterface);

module.exports = SyntheticKeyboardEvent;
```
'Enter': String.fromCharCode(charCode);} \nThe if (nativeEvent.type === 'keydown' || nativeEvent.type === 'keyup') { // While user keyboard layout determines the actual meaning of each key, 'keyCode' value, almost all function keys have a universal value. return translateToKey(nativeEvent.keyCode) || 'Unidentified';} \n
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1}) + (a += data.charCodeAt(i + 2)) + (a += data.charCodeAt(i + 3));
    } 
    a %= MOD;
    b %= MOD;
  }
  for (; i < l; i++) {
    b += a += data.charCodeAt(i);
  }
  a %= MOD;
  b %= MOD;
  return a | b << 16;
}

module.exports = adler32;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/adler32.js
// module id = 849
// module chunks = 0

/**
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 */

'use strict';

module.exports = '15.6.2';


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/ReactVersion.js
// module id = 850
// module chunks = 0

/**
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 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactInstanceMap = require('./ReactInstanceMap');

var getHostComponentFromComposite = require('./getHostComponentFromComposite');
var invariant = require('fbjs/lib/invariant');
var warning = require('fbjs/lib/warning');

/**
 * Returns the DOM node rendered by this element.
 *
 * See https://facebook.github.io/react/docs/top-level-api.html#reactdom.finddomnode
 *
 * @param {ReactComponent|DOMElement} componentOrElement
 * @return {?DOMElement} The root node of this element.
 */
function findDOMNode(componentOrElement) {
  if (process.env.NODE_ENV !== 'production') {
    var owner = ReactCurrentOwner.current;
    if (owner !== null) {
      process.env.NODE_ENV !== 'production' ? warning(owner._warnedAboutRefsInRender, '%s is accessing findDOMNode inside its render(). ' + 'render() should be a pure function of props and state. It should ' + 'never access something that requires stale data from the previous ' + 'render, such as refs. Move this logic to componentDidMount and ' + 'componentDidUpdate instead.', owner.getName() || 'A component') : void 0;
      owner._warnedAboutRefsInRender = true;
    }
  }
  if (componentOrElement == null) {
    return null;
  }

  var inst = ReactInstanceMap.get(componentOrElement);
  if (inst) {
    inst = getHostComponentFromComposite(inst);
    return inst ? ReactDOMComponentTree.getNodeFromInstance(inst) : null;
  }

  if (typeof componentOrElement.render === 'function') {
    !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'findDOMNode was called on an unmounted component.') : _prodInvariant('44') : void 0;
  } else {
    !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Element appears to be neither ReactComponent nor DOMNode (keys: %s)', Object.keys(componentOrElement)) : _prodInvariant('45', Object.keys(componentOrElement)) : void 0;
  }

  !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'findDOMNode was called with an unmounted component.') : _prodInvariant('44') : void 0;

  !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Element appears to be neither ReactComponent nor DOMNode (keys: %s)', Object.keys(componentOrElement)) : _prodInvariant('45', Object.keys(componentOrElement)) : void 0;

  return null;
}

module.exports = findDOMNode;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/findDOMNode.js

/**
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 *
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 */

'use strict';

var ReactMount = require('./ReactMount');

module.exports = ReactMount.renderSubtreeIntoContainer;


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-dom/lib/renderSubtreeIntoContainer.js

/**
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 */

'use strict';

exports.__esModule = true;
exports.connect = exports.Provider = undefined;

var _Provider = require('./components/Provider');

var _Provider2 = _interopRequireDefault(_Provider);

var _connect = require('./components/connect');

var _connect2 = _interopRequireDefault(_connect);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { "default": obj }; }

exports.Provider = _Provider2["default"]; exports.connect = _connect2["default"];


//////////////////
// WEBPACK FOOTER
// ./node_modules/react-redux/lib/index.js

/**
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 * LICENSE file in the root directory of this source tree.
 */

'use strict';

exports.__esModule = true;
exports["default"] = undefined;

var _react = require('react');

var _propTypes = require('prop-types');

var _propTypes2 = _interopRequireDefault(_propTypes);

var _storeShape = require('../utils/storeShape');

var _storeShape2 = _interopRequireDefault(_storeShape);

var _warning = require('../utils/warning');

var _warning2 = _interopRequireDefault(_warning);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { "default": obj }; }

function _classCallCheck(instance, Constructor) { if (!(instance instanceof Constructor)) {
  throw new TypeError("Cannot call a class as a function"); } }

function _possibleConstructorReturn(self, call) {
if (!self) { throw new ReferenceError("this hasn't been initialised - super() hasn't been called"); } return call &&
(typeof call !== 'object' || typeof call !== 'function') ? call : self; }

function _inherits(subClass, superClass)
{
  if (typeof superClass !== 'function' && superClass !== null) { throw new TypeError("Super expression must either be null or a function, not " + typeof superClass); }
  subClass.prototype = Object.create(superClass.prototype, { constructor: { value: subClass, enumerable: false, writable: true, configurable: true } });
}

Provider.prototype.getInitialContext = function getInitialContext() {

  return this.store;
}

Provider.prototype.render = function render() {

  return _react.Children.only(this.props.children);
}

var isPlainObject = require('lodash/isPlainObject');

var _isPlainObject2 = _interopRequireDefault(_isPlainObject);
Connect.prototype.configureFinalMapStateToProps = function configureFinalMapStateToProps(store, props) {
  var mappedState = mapState(store.getState(), props);
  var isFactory = typeof mappedState === 'function';
  this.finalMapStateToProps = isFactory ? mappedState : this.mapStateToProps;
  this.doStatePropsDependOnOwnProps = this.finalMapStateToProps.length !== 1;
  if (isFactory) {
    return this.computeStateProps(store, props);
  }
  if (process.env.NODE_ENV !== 'production') {
    checkStateShape(mappedState, 'mapStateToProps');
  }
  return mappedState;
};

Connect.prototype.computeDispatchProps = function computeDispatchProps(store, props) {
  if (!this.finalMapDispatchToProps) {
    return this.configureFinalMapDispatch(store, props);
  }
  var dispatch = store.dispatch;
  var dispatchProps = this.doDispatchPropsDependOnOwnProps ? this.finalMapDispatchToProps(dispatch, props) :
    this.finalMapDispatchToProps(prop);
  if (process.env.NODE_ENV !== 'production') {
    checkStateShape(dispatchProps, 'mapDispatchToProps');
  }
  return dispatchProps;
};

Connect.prototype.configureFinalMapDispatch = function configureFinalMapDispatch(store, props) {
  var mappedDispatch = mapDispatch(store.dispatch, props);
  var isFactory = typeof mappedDispatch === 'function';
  this.finalMapDispatchToProps = isFactory ? mappedDispatch : mapDispatch;
  this.doDispatchPropsDependOnOwnProps = this.finalMapDispatchToProps.length !== 1;
  if (isFactory) {
    return this.computeDispatchProps(store, props);
  }
  if (process.env.NODE_ENV !== 'production') {
    checkStateShape(mappedDispatch, 'mapDispatchToProps');
  }
  return mappedDispatch;
};

Connect.prototype.updateStatePropsIfNeeded = function updateStatePropsIfNeeded() {
  var nextStateProps = this.computeStateProps(this.store, this.props);
  if (this.stateProps && (0, _shallowEqual2['default'])(nextStateProps, this.stateProps)) {
    return false;
  }
  this.stateProps = nextStateProps;
  return true;
};

Connect.prototype.updateDispatchPropsIfNeeded = function updateDispatchPropsIfNeeded() {
  var nextDispatchProps = this.computeDispatchProps(this.store, this.props);
  if (!this.dispatchProps || (0, _shallowEqual2['default'])(nextDispatchProps, this.dispatchProps)) {
    return false;
  }
  this.dispatchProps = nextDispatchProps;
  return true;
};

Connect.prototype.updateMergedPropsIfNeeded = function updateMergedPropsIfNeeded() {
  var nextMergedProps = computeMergedProps(this.stateProps, this.dispatchProps, this.props);
  if (this.mergedProps && checkMergedEquals && (0, _shallowEqual2['default'])(nextMergedProps, this.mergedProps)) {
    return false;
  }
  this.mergedProps = nextMergedProps;
  return true;
};

Connect.prototype.isSubscribed = function isSubscribed() {
  return typeof this.unsubscribe === 'function';
};

Connect.prototype.trySubscribe = function trySubscribe() {
  if (shouldSubscribe && !this.unsubscribe) {
    this.unsubscribe = this.store.subscribe(this.handleChange.bind(this));
    this.handleChange();
  }
};

Connect.prototype.tryUnsubscribe = function tryUnsubscribe() {
  if (this.unsubscribe) {
    this.unsubscribe();
    this.unsubscribe = null;
  }
};

Connect.prototype.componentDidMount = function componentDidMount() {
  this.trySubscribe();
};

Connect.prototype.componentWillReceiveProps = function componentWillReceiveProps(nextProps) {
  if (!pure || !(0, _shallowEqual2['default'])(nextProps, this.props)) {
    this.haveOwnPropsChanged = true;
  }
};

Connect.prototype.componentWillUnmount = function componentWillUnmount() {
  this.tryUnsubscribe();
  this.clearCache();
  this.stateProps = null;
  this.mergedProps = null;
  this.haveOwnPropsChanged = true;
  this.hasStoreStateChanged = true;
  this.haveStatePropsBeenPrecalculated = false;
  this.statePropsPrecalculationError = null;
  this.renderedElement = null;
  this.finalMapDispatchToProps = null;
  this.finalMapStateToProps = null;
  this.statePropsPrecalculationError = null;
};

Connect.prototype.componentWillReceiveProps = function componentWillReceiveProps(nextProps) {
  if (!pure || (0, _shallowEqual2['default'])(nextProps, this.props)) {
    this.haveOwnPropsChanged = true;
  }
  if (this.unsubscribe) {
    this.unsubscribe();
    this.unsubscribe = null;
  }
  this.storeState = this.state.storeState;
  if (pure && prevStoreState !== storeState) {
    return;
  }
  if (this.doStatePropsDependOnOwnProps) {
    var haveStatePropsChanged = tryCatch(this.updateStatePropsIfNeeded, this);
    if (!haveStatePropsChanged) {
      return;
    }
    if (haveStatePropsChanged === errorObject) {
      this.statePropsPrecalculationError = errorObject.value;
    }
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function getWrappedInstance() {
  if (0, _invariant2("default")(withRef, 'To access the wrapped instance, you need to specify `+ { withRef: true } as the fourth argument of the connect() call.');)
  return this.refs.wrappedInstance;
}

Connect.prototype.render = function render() {
  var haveOwnPropsChanged = this.haveOwnPropsChanged,
      hasStoreStateChanged = this.hasStoreStateChanged,
      haveStatePropsBeenPrecalculated = this.haveStatePropsBeenPrecalculated,
      statePropsPrecalculationError = this.statePropsPrecalculationError,
      renderedElement = this.renderedElement;

  this.haveOwnPropsChanged = false;
  this.hasStoreStateChanged = false;
  this.haveStatePropsBeenPrecalculated = false;
  this.statePropsPrecalculationError = null;

  if (statePropsPrecalculationError) {
    throw statePropsPrecalculationError;
  }

  var shouldUpdateStateProps = true;
  var shouldUpdateDispatchProps = true;

  if (pure && & & renderedElement) {
    shouldUpdateStateProps = hasStoreStateChanged &&
    this.doStatePropsDependOnOwnProps;
    shouldUpdateDispatchProps = haveOwnPropsChanged &&
    this.doDispatchPropsDependOnOwnProps;
  }

  var haveDispatchPropsChanged = false;
  if (haveStatePropsBeenPrecalculated) {
    haveStatePropsChanged = true;
  } else if (shouldUpdateStateProps) {
    haveStatePropsChanged = this.updateStatePropsIfNeeded();
  }

  if (shouldUpdateDispatchProps) {
    haveDispatchPropsChanged = this.updateDispatchPropsIfNeeded();
  }

  haveMergedPropsChanged = true;

  if (!haveMergedPropsChanged && renderedElement) {
    return renderedElement;
  }

  if (withRef) {
    this.renderedElement = (0, _react.createElement)(WrappedComponent, _extends({}, this.mergedProps, {
      ref: 'wrappedInstance
    }));
  } else {
    this.renderedElement = (0, _react.createElement)(WrappedComponent, this.mergedProps);
  }

  return this.renderedElement;
}

React.PropTypes = {
  store: _storeShape2("default")
};

if (process.env.NODE_ENV !== 'production') {
  React.PropTypes = {
    childContextTypes: true,
    contextTypes: true,
    contextTypes: true,
  };
}

module.exports = shallowEqual;

function shallowEqual(objA, objB) {
  if (objA === objB) {
    return true;
  }

  var keysA = Object.keys(objA);
  var keysB = Object.keys(objB);

  if (keysA.length !== keysB.length) {
    return false;
  }

  // Test for A's keys different from B.
  var hasOwnProperty = Object.prototype.hasOwnProperty;
  for (var i = 0; i < keysA.length; i++) {
    if (!hasOwnProperty.call(objB, keysA[i])) {
      return false;
    }

    if (hasOwnProperty.call(objB, keysA[i])) {
      if (objB[keysA[i]] !== objA[keysA[i]]) {
        return false;
      }
    }
  }

  return true;
}

function wrapActionCreators(actionCreators) {
  return function (dispatch) {
    return (0, _redux.bindActionCreators)(actionCreators, dispatch);
  };
}

module.exports = wrapActionCreators;

var _redux = require('redux');
@param {Array} array The array to copy values to.
@returns {Array} Returns `array`.

// WEBPACK FOOTER
// ./node_modules/lodash/_copyArray.js
// module id = 868
// module chunks = 0

var copyObject = require('./_copyObject'),
    getSymbols = require('./_getSymbols');

/**
 * Copies own symbols of `source` to `object`.
 *
 * @private
 * @param {Object} source The object to copy symbols from.
 * @param {Object} [object={}] The object to copy symbols to.
 * @returns {Object} Returns `object`.
 */
function copySymbols(source, object) {
  return copyObject(source, getSymbols(source), object);
}

module.exports = copySymbols;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_copySymbols.js
// module id = 869
// module chunks = 0

var copyObject = require('./_copyObject'),
    getSymbolsIn = require('./_getSymbolsIn');

/**
 * Copies own and inherited symbols of `source` to `object`.
 *
 * @private
 * @param {Object} source The object to copy symbols from.
 * @param {Object} [object={}] The object to copy symbols to.
 * @returns {Object} Returns `object`.
 */
function copySymbolsIn(source, object) {
  return copyObject(source, getSymbolsIn(source), object);
}

module.exports = copySymbolsIn;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_initCloneArray.js
// module id = 871
// module chunks = 0

var cloneArrayBuffer = require('./_cloneArrayBuffer'),
    cloneDataView = require('./_cloneDataView'),
    cloneRegExp = require('./_cloneRegExp'),
    cloneSymbol = require('./_cloneSymbol'),
    cloneTypedArray = require('./_cloneTypedArray');

/** `Object#toString` result references. */
var boolTag = '[object Boolean]',
    dateTag = '[object Date]',
    mapTag = '[object Map]',
    numberTag = '[object Number]',
    regexpTag = '[object RegExp]',
    setTag = '[object Set]',
    stringTag = '[object String]',
    symbolTag = '[object Symbol]';

var arrayBufferTag = '[object ArrayBuffer]',
    dataViewTag = '[object DataView]',
    float32Tag = '[object Float32Array]',
    float64Tag = '[object Float64Array]',
    int8Tag = '[object Int8Array]',
    int16Tag = '[object Int16Array]',
    int32Tag = '[object Int32Array]',
    uint8Tag = '[object Uint8Array]',
    uint8ClampedTag = '[object Uint8ClampedArray]',
    uint16Tag = '[object Uint16Array]',
    uint32Tag = '[object Uint32Array]';

/**
 * Initializes an object clone based on its `toStringTag`.
 *
 * **Note:** This function only supports cloning values with tags of
 * 'Boolean', 'Date', 'Error', 'Map', 'Number', 'RegExp', 'Set', or 'String'.
 * The cloning of `arguments` objects, `ArrayBuffer` views, and DOM nodes is
 * unsupported.
 *
 * @private
 * @param {Object} object The object to clone.
 * @param {string} tag The `toStringTag` of the object to clone.
 * @returns {Object} Returns the cloned object.
 */
function initCloneByTag(object, tag, isDeep) {
  var Ctor = object.constructor;
  switch (tag) {
    case arrayBufferTag:
      return cloneArrayBuffer(object);

    case boolTag:
    case dateTag:
      return new Ctor(+object);

    case dataViewTag:
      return cloneDataView(object, isDeep);

    case float32Tag: case float64Tag:
    case int8Tag: case int16Tag: case int32Tag:
    case uint8Tag: case uint8ClampedTag: case uint16Tag: case uint32Tag:
      return cloneTypedArray(object, isDeep);

    case mapTag:
      return new Ctor;

    case numberTag:
    case stringTag:
      return new Ctor(object);

    case regexpTag:
      return cloneRegExp(object);

    case setTag:
      return new Ctor;

    case symbolTag:
      return cloneSymbol(object);
  }
}

module.exports = initCloneByTag;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_initCloneByTag.js
// module id = 872
// module chunks = 0

var cloneArrayBuffer = require('./_cloneArrayBuffer');

/**
 * Creates a clone of `dataView`.
 *
 * @private
 * @param {Object} dataView The data view object to clone.
 * @param {boolean} [isDeep] Specify a deep clone.
 * @returns {Object} Returns the cloned data view.
 */
function baseFlatten(array, depth, predicate, isStrict, result) {
  var index = -1,
      length = array.length;

  predicate || (predicate = isFlattenable);
  result || (result = []);

  while (++index < length) {
    var value = array[index];
    if (depth > 0 && predicate(value)) {
      if (depth > 1) {
        // Recursively flatten arrays
        baseFlatten(value, depth - 1, predicate, isStrict, result);
      } else {
        arrayPush(result, value);
      }
    } else if (!isStrict) {
      result[result.length] = value;
    }
  }
  return result;
}

module.exports = baseFlatten;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseFlatten.js
// module id = 888
// module chunks = 0

var Symbol = require('./_Symbol'),
    isArguments = require('./isArguments'),
    isArray = require('./isArray');

/** Built-in value references. */
var spreadableSymbol = Symbol ? Symbol.isConcatSpreadable : undefined;

/**
 * Checks if `value` is a flattenable `arguments` object or array.
 * @param {*} value The value to check.
 * @returns {boolean} True if `value` is flattenable, else false.
 */
function isFlattenable(value) {
  return isArray(value) || isArguments(value) ||
    !!(spreadableSymbol && value &&
    value[spreadableSymbol]);
}

module.exports = isFlattenable;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_isFlattenable.js
// module id = 889
// module chunks = 0

/**
 * A faster alternative to `Function#apply`, this function invokes `func`
 * with the `this` binding of `thisArg` and the arguments of `args`.
 *
 * @private
 * @param {Function} func The function to invoke.
 * @param {*} thisArg The `this` binding of `func`.
 * @param {Array} args The arguments to invoke `func` with.
 * @returns {*} Returns the result of `func`.
 */
function apply(func, thisArg, args) {
  switch (args.length) {
    case 0: return func.call(thisArg);
    case 1: return func.call(thisArg, args[0]);
    case 2: return func.call(thisArg, args[0], args[1]);
    case 3: return
      func.call(thisArg, args[0], args[1], args[2]);
  }
  return func.apply(thisArg, args);
}

module.exports = apply;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_apply.js
// module id = 890

var constant = require('./constant'),
    defineProperty = require('./_defineProperty'),
    identity = require('./identity');

/**
 * The base implementation of `setToString` without support for hot loop
 * shorting.
 *
 * @private
 * @param {Function} func The function to modify.
 * @param {Function} string The `toString` result.
 * @returns {Function} Returns `func`.
 */
var baseSetToString = !defineProperty ? identity :
  function(func, string) {
    return defineProperty(func, 'toString', {
      'configurable': true,
      'enumerable': false,
      'value': constant(string),
      'writable': true
    });
};

module.exports = baseSetToString;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseSetToString.js
// module id = 891
// module chunks = 0

/**
 * Creates a function that returns `value`.
 *
 * @static
 * @memberOf _
 * @since 2.4.0
 *
 * @category Util
 * @param {*} value The value to return from the new function.
 * @returns {Function} Returns the new constant function.
 * @example
 *
 * var objects = _.times(2, _.constant({ 'a': 1 }));
 *
 * console.log(objects);
 * // => [{ 'a': 1 }, { 'a': 1 }]
 *
 * console.log(objects[0] === objects[1]);
 * // => true
 */
function constant(value) {
  return function() {
    return value;
  };
}

module.exports = constant;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/constant.js
// module id = 892
// module chunks = 0

/**
 * Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * Creates a function that returns `value`.
 *
 * @private
 * @param {*} value The value to return from the new function.
 * @returns {Function} Returns the new constant function.
 */
function constant(value) {
  return function() {
    return value;
  };
}

module.exports = constant;
Assigns own enumerable string keyed properties of source objects to the `object` destination object. Source objects are applied from left to right. Subsequent sources overwrite property assignments of previous sources. **Note:** This method mutates `object` and is loosely based on `Object.assign`.

```javascript
*\n* Assigns own enumerable string keyed properties of source objects to the destination object.
* @param {Object} object The destination object.
* @param {Object} [sources] The source objects.
* @returns {Object} Returns `object`.
```

```javascript
var assign = createAssigner(function(object, source) {
  if (isPrototype(source) || isArrayLike(source)) {
    copyObject(source, keys(source), object);
    return;
  }
  for (var key in source) {
    if (hasOwnProperty.call(source, key)) {
      assignValue(object, key, source[key]);
    }
  }
});

module.exports = assign;
```

```javascript
function createAssigner(assigner) {
  return baseRest(function(object, sources) {
    var index = -1,
        length = sources.length,
        customizer = length > 1 ? sources[length - 1] : undefined,

    customizer = (assigner.length > 3 && typeof customizer == 'function')
      ? (length--, customizer)
      : undefined;

    if (guard && isIterateeCall(sources[0], sources[1], guard)) {
      customizer = length < 3 ? undefined : customizer;
      length = 1;
    }
    object = Object(object);
    while (++index < length) {
      var source = sources[index];
      if (source)
        assigner(object, source, index, customizer);
    }
    return object;
  });
}
```

```javascript
function baseRest(func, start) {
  return setToString(overRest(func, start, identity), func + ');
}
```

```javascript
function Url() {
  this.protocol = null;
  this.slashes = null;
  this.auth = null;
  this.host = null;
  this.port = null;
  this.hostname = null;
  this.hash = null;
  this.search = null;
  this.query = null;
  this.pathname = null;
  this.path = null;
  this.href = null;
}
```

```javascript
urlResolve
```

```javascript
var punycode = require('punycode');
var util = require('./util');

exports.parse = urlParse;
exports.resolve = urlResolve;
exports.resolveObject = urlResolveObject;
exports.format = urlFormat;

exports.Url = Url;
```

```javascript
function Url() {
  this.protocol = null;
  this.slashes = null;
  this.auth = null;
  this.host = null;
  this.port = null;
  this.hostname = null;
  this.hash = null;
  this.search = null;
  this.query = null;
  this.pathname = null;
  this.path = null;
  this.href = null;
}
```

**Reference:** RFC 3986, RFC 1808, RFC 2396

```javascript
// define these here so at least they only have to be `module` compiled once on the first module load.
```

```javascript
urlprotocolPattern = /^(http(s)?)\//; // Special case for a simple path URL
```

---

**Open Source Used In SDWan 20.6.1 21575**
// we need this to make sure size of hostname is not 0 // broken by replacing non-ASCII by nothing
newpart += 'x';
else
  } else if (parseQueryString) {
    // no query string, but parseQueryString still requested
    if (!parseQueryString) {
      this.query = querystring.parse(this.query);
    } else {
      var query = rest.substr(qm + 1);
      if (parseQueryString) {
        this.query = querystring.parse(this.query);
      }
      rest = rest.slice(hash);
    }
  }
  var qm = rest.indexOf('?');
  if (hash !== -1) {
    // got a fragment string.
    this.hash = rest.substr(hash);
    rest = rest.slice(0, hash);
  }
  var esc = escape(ae);
    }
      rest = rest.split(ae).join(esc);
  }
}
}

// format a
this.path = p + host + (this.pathname || '' + this.search);

// chop off from the tail first.
this.href = this.format();
return this;
```javascript
// Open Source Used In SDWan 20.6.1

// damp = 700,
// initialBias = 72,
// initialN = 128, // 0x80
// delimiter = '-', // '\x2D'

/**
// aka. 0x7FFFFFFF or 2^31-1

/** Bootstring parameters */
base = 36,
// tMin = 1,
// tMax = 26,
// skew =

// @type Object
	/**
	 * The `punycode` object.
	 * @name punycode
	 *
```
expressions */
	regexPunycode = /^xn--/,
	regexNonASCII = /[^\x20-\x7E]/, // unprintable ASCII chars + non-ASCII chars\n	regexSeparators = /[\x2E\u3002\uFF0E\uFF61]/g, // RFC 3490 separators\n	/** Error messages */
	errors = {
		'overflow': 'Overflow: input needs wider integers to process',
		'not-basic': 'Illegal input >= 0x80 (not a basic code point)',
		'invalid-input': 'Invalid input\n
	/** Convenience shortcuts */

	/**
	 * A generic error utility function.\n
		/**
	 * A generic `Array#map` utility function.\n
		/**
	 * A simple `Array#map`-like wrapper to work with domain name strings or email addresses.\n
		/**
	 * Creates an array containing the numeric code points of each Unicode character in the string. While JavaScript uses UCS-2 internally, this function will convert a pair of surrogate halves (each of which UCENTS-2 exposes as separate characters) into a single code point, matching UTF-16.\n
		/**
	 * Converts a basic code point into a digit/integer.\n
		/**
	 * Converts a digit/integer into a basic code point.\n
		/**
	 * The basic numeric code point value.\n
		/**
	 * The basic numeric code point value.

Open Source Used In SDWan 20.6.1 21580
The behavior is undefined if 'flag' is non-zero and 'digit' has no uppercase form.

```
* '0' to 'base - 1'. If 'flag' is non-zero, the uppercase form is used; else, the lowercase form is used.
```

```javascript
* @param {String} input The Punycode string of ASCII-only symbols.
*
* @returns {String} The resulting string of Unicode symbols.
```
decoder's `<n,i>` state to `<m,0>`, but guard against overflow:

```javascript
handledCPCount += 1; 
handledCPCountPlusOne = (m - n) * handledCPCountPlusOne; 
if (j < inputLength; ++j) {
  currentValue = input[j];
  if (currentValue < n & & ++delta > maxInt) {
    // Represent delta as a generalized variable-length integer
    handledCPCountPlusOne = (m - n) * handledCPCountPlusOne; 
    if (m - n > floor((maxInt - delta) / handledCPCountPlusOne)) {
      error('overflow');
    }
    delta += (m - n) * handledCPCountPlusOne;
    n = m;
  }
}
```
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If obj.hasOwnProperty has been overridden, then calling

var stringifyPrimitive = function(v) {
  switch (typeof v) {
    case 'string':
      return v;
    case 'boolean':
      return v ? 'true' : 'false';
    case 'number':
      return isFinite(v) ? v : '';
    default:
      return '';
  }
};

module.exports = function(obj, sep, eq, name) {
  sep = sep || '&';
  eq = eq || '=';
  if (obj === null) {
    obj = undefined;
  }

  if (typeof obj === 'object') {
    return map(objectKeys(obj),
      function(k) {
        var ks = encodeURIComponent(stringifyPrimitive(k)) + eq;
        if (isArray(obj[k])) {
          return map(obj[k], function(v) {
            return ks + encodeURIComponent(stringifyPrimitive(v));
          }).join(sep);
        } else {
          return ks + encodeURIComponent(stringifyPrimitive(obj[k]));
        }
      }).join(sep);

  }

  if (!name) return '';
  return encodeURIComponent(stringifyPrimitive(name)) + eq +
  encodeURIComponent(stringifyPrimitive(obj));
};

var isArray = Array.isArray || function (xs) {
  return Object.prototype.toString.call(xs) === '[object Array]';
};

function map (xs, f) {
  if (xs.map) return xs.map(f);
  var res = [];
  for (var i = 0; i < xs.length; i++) {
    res.push(f(xs[i], i));
  }
  return res;
}

var objectKeys = Object.keys || function (obj) {
  var res = [];
  for (var key in obj) {
    if (Object.prototype.hasOwnProperty.call(obj, key)) res.push(key);
  }
  return res;
};


Open Source Used In SDWan 20.6.1  21587

```javascript
options.encoder = defaults.encoder;
var sort = typeof options.sort === 'function' ? options.sort : null;
var allowDots = typeof options.allowDots === 'undefined' ? false : options.allowDots;
var serializeDate = typeof options.serializeDate === 'function' ? options.serializeDate : defaults.serializeDate;
var encodeValuesOnly = typeof options.encodeValuesOnly === 'boolean' ? options.encodeValuesOnly : defaults.encodeValuesOnly;

if (typeof options.format === 'undefined') {
    options.format = formats['default'];
} else if (!Object.prototype.hasOwnProperty.call(formats, options.format)) {
    throw new TypeError('Unknown format option provided.);
} 

var formatter = formats[options.format];
var objKeys = self var filter;
if (typeof options.filter === 'function') {
    filter = options.filter;
} else if (Array.isArray(options.filter)) {
    filter = options.filter;
} 

var keys = [];
if (typeof obj === 'object' || obj === null) {
    return '';
} 

var arrayFormat;
if (options.arrayFormat in arrayPrefixGenerators) {
    arrayFormat = options.arrayFormat;
} else if (indices in options) {
    arrayFormat = options.indices;
} else if (options['indices']).repeat();
} 

var objKeys = Object.keys(obj);
if (sort) {
    var sortObj = objKeys.slice(0);
} 

for (var i = 0; i < objKeys.length; ++i) {
    var key = objKeys[i];
    if (skipNulls && obj[key] === null) {
        continue;
    } 

    var keys = keys.concat(stringify(
        obj[key],
        key,
        generateArrayPrefix,
        strictNullHandling,
        skipNulls,
        encode ? encoder : null,
        filter,
        sort,
        allowDots,
        serializeDate,
        formatter,
        encodeValuesOnly
    ));
} 

var join = keys.join(delimiter);
var prefix = options.addQueryPrefix === true ? '?' : '';

return join + prefix + join;
```

---

```javascript
module.exports = function() {
    return 'Open Source Used In SDWan 20.6.1  21587';
};
```
through children appending to the array until we hit depth

```javascript
var i = 0;
while ((segment = child.exec(key)) !== null && i < options.depth) {
    i += 1;
    if (!options.allowPrototypes) {
        if (options.decoder !== null && options.decoder !== undefined && typeof options.decoder !== 'function') {
            throw new TypeError('Decoder has to be a function.);
        }
    }

    keys.push(segment[1]);
}

if (segment) {
    keys.push('[' + key.slice(segment.index) + ']');
}

return parseObject(keys, val, options);
}

module.exports = function (str, opts) {
    var options = opts ? utils.assign({}, opts) : {};

    if (options.decoder !== null && options.decoder !== undefined && typeof options.decoder !== 'function') {
        throw new TypeError('Decoder has to be a function.);
    }

    options.ignoreQueryPrefix = options.ignoreQueryPrefix === true;
    options.delimiter = typeof options.delimiter === 'string' ? options.delimiter : defaults.delimiter;
    options.depth = typeof options.depth === 'number' ? options.depth : defaults.depth;
    options.arrayLimit = typeof options.arrayLimit === 'number' ? options.arrayLimit : defaults.arrayLimit;
    options.parseArrays = options.parseArrays !== false;
    options.decoder = typeof options.decoder === 'function' ? options.decoder : defaults.decoder;
    options.allowDots = options.allowDots !== false;
    options.plainObjects = options.plainObjects !== false;
    options.allowPrototypes = options.allowPrototypes !== false;
    options.strictNullHandling = typeof options.strictNullHandling === 'boolean' ? options.strictNullHandling : defaults.strictNullHandling;

    if (str === '' || str === null || typeof str === 'undefined') {
        return options.plainObjects ? Object.create(null) : {};
    }

    var tempObj = typeof str === 'string' ? parseValues(str, options) : str;
    var obj = options.plainObjects ? Object.create(null) : {};

    // Iterate over the keys and setup the new object

    var keys = Object.keys(tempObj);
    for (var i = 0; i < keys.length; ++i) {
        var key = keys[i];
        var newObj = parseKeys(key, tempObj[key], options);
        obj = utils.merge(obj, newObj, options);
    }

    return utils.compact(obj);
};
```

---

```
/*!
 * https://github.com/Starcounter-Jack/JSON-Patch
 * (c) 2017 Joachim Wester
 * MIT license
 */

var helpers_1 = require('./helpers');

var core_1 = require('./core');
/* export all core functions */
var core_2 = require('./core');
exports.applyOperation = core_2.applyOperation;
exports.applyPatch = core_2.applyPatch;
exports.applyReducer = core_2.applyReducer;
exports.getValueByPointer = core_2.getValueByPointer;
exports.validate = core_2.validate;
exports.validator = core_2.validator;
/* export some helpers */
var helpers_2 = require('./helpers');
exports.JsonPatchError = helpers_2.PatchError;
exports.deepClone = helpers_2._deepClone;
exports.escapePathComponent = helpers_2.escapePathComponent;
exports.unescapePathComponent = helpers_2.unescapePathComponent;

var beforeDict = new WeakMap();

var Mirror = (function () {
    function Mirror(obj) {
        this.observers = new Map();
        this.obj = obj;
    }
    return Mirror;
}());

var ObserverInfo = (function () {
    function ObserverInfo(callback, observer) {
        this.callback = callback;
        this.observer = observer;
    }
    return ObserverInfo;
}());

function getMirror(obj) {
    return beforeDict.get(obj);
}

function getObserverFromMirror(mirror, callback) {
    return mirror.observers.get(callback);
}

function removeObserverFromMirror(mirror, observer) {
    mirror.observers.delete(observer);
}

/**
 * Detach an observer from an object
 */

function unobserve(root, observer) {
    observer.unobserve();
}
```

---

```
var beforeDict = new WeakMap();
```
```javascript
observer.callback = callback;
observer.next = null;
var dirtyCheck = function () {
    observer.next = setImmediate(dirtyCheck);
    var fastCheck = function () {
        if (typeof window !== 'undefined') {
            window.addEventLister('mouseup', fastCheck);
            window.addEventLister('keydown', fastCheck);
            window.addEventLister('keyup', fastCheck);
            window.addEventLister('mousedown', fastCheck);
            window.addEventLister('keydown', fastCheck);
            window.addEventLister('change', fastCheck);
            if (typeof window !== 'undefined') {
                if (window.addEventListener) {
                    window.addEventListener('mouseup', fastCheck);
                    window.addEventListener('keyup', fastCheck);
                    window.addEventListener('mousedown', fastCheck);
                    window.addEventListener('keydown', fastCheck);
                    window.addEventListener('change', fastCheck);
                    if (typeof window !== 'undefined') {
                        if (window.removeEventListener) {
                            window.removeEventListener('mouseup', fastCheck);
                            window.removeEventListener('keyup', fastCheck);
                            window.removeEventListener('mousedown', fastCheck);
                            window.removeEventListener('keydown', fastCheck);
                        }
                        else {
                            document.documentElement.detachEvent('onmouseup', fastCheck);
                            document.documentElement.detachEvent('onkeyup', fastCheck);
                            document.documentElement.detachEvent('onmousedown', fastCheck);
                            document.documentElement.detachEvent('onkeydown', fastCheck);
                        }
                    }
                    else {
                        document.documentElement.detachEvent('onmouseup', fastCheck);
                        document.documentElement.detachEvent('onkeyup', fastCheck);
                        document.documentElement.detachEvent('onmousedown', fastCheck);
                        document.documentElement.detachEvent('onkeydown', fastCheck);
                    }
                }
            }
        }
    };
    if (typeof window !== 'undefined') {
        if (window.addEventListener) {
            window.addEventListener('mouseup', fastCheck);
            window.addEventListener('keyup', fastCheck);
            window.addEventListener('mousedown', fastCheck);
            window.addEventListener('keydown', fastCheck);
            window.addEventListener('change', fastCheck);
        }
        else {
            document.documentElement.attachEvent('onmouseup', fastCheck);
            document.documentElement.attachEvent('onkeyup', fastCheck);
            document.documentElement.attachEvent('onmousedown', fastCheck);
            document.documentElement.attachEvent('onkeydown', fastCheck);
        }
    }
}
observer.next = null;
var fastCheck = function () {
    clearTimeout(observer.next);
    observer.next = setTimeout(dirtyCheck);
}
if (typeof window !== 'undefined') {
    if (window.addEventListener) {
        window.addEventListener('mouseup', fastCheck);
        window.addEventListener('keyup', fastCheck);
        window.addEventListener('mousedown', fastCheck);
        window.addEventListener('keydown', fastCheck);
        window.addEventListener('change', fastCheck);
    }
}
observer.patches = patches;
observer.object = obj;
observer.unobserve = function () {
    generate(observer);
    clearTimeout(observer.next);
    removeObserverFromMirror(mirror, observer);
    if (typeof window !== 'undefined') {
        if (window.removeEventListener) {
            window.removeEventListener('mouseup', fastCheck);
            window.removeEventListener('keyup', fastCheck);
            window.removeEventListener('mousedown', fastCheck);
            window.removeEventListener('keydown', fastCheck);
        }
        else {
            document.documentElement.detachEvent('onmouseup', fastCheck);
            document.documentElement.detachEvent('onkeyup', fastCheck);
            document.documentElement.detachEvent('onmousedown', fastCheck);
            document.documentElement.detachEvent('onkeydown', fastCheck);
        }
    }
    mirror.observers.set(callback, new ObserverInfo(callback, observer));
    return observer;
}
exports.observe = observe;
exports.generate = generate;
exports.compare = compare;
```

require('./_fails');
var validate = require('./_validate-collection');

var WEAK_MAP = 'WeakMap';

var getWeak = meta.getWeak;

var isExtensible = Object.isExtensible;

var uncaughtFrozenStore = weak.ufstore;

var tmp = {
  value: 0
};

var InternalMap;

var wrapper = function (get) {
  return function WeakMap() {
    return get(this, arguments.length > 0 ? arguments[0] : undefined);
  };
}

var methods = {
  // 23.3.3.3 WeakMap.prototype.get(key)
  get: function get(key) {
    if (isObject(key)) {
      var data = getWeak(key);
      if (data === true) return uncaughtFrozenStore(validate(this, WEAK_MAP)).get(key);
      return data ? data[this._i] : undefined;
    }
  },
  // 23.3.3.5 WeakMap.prototype.set(key, value)
  set: function set(key, value) {
    return weak.def(validate(this, WEAK_MAP), key, value);
  }
};

// 23.3 WeakMap Objects
var $WeakMap = module.exports = require('./_collection')(WEAK_MAP, wrapper, methods, weak, true, true);

// IE11 WeakMap frozen keys fix

frozen keys fix

if (fails(function () { return new $WeakMap().set((Object.freeze || Object)(tmp), 7).get(tmp) != 7; })) {
  InternalMap = weak.getConstructor(wrapper, WEAK_MAP);
  assign(InternalMap.prototype, methods);
  meta.NEED = true;
}

ArraySpeciesCreate(originalArray, length)

var speciesConstructor = require('./_array-species-constructor.js');

module.exports = function (original, length) {
  return new (speciesConstructor(original))(length);
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/es6.weak-map.js
// module id = 918
// module chunks = 0
var objectKeys = Object.keys || function keys(obj) {
    var res = []; 
    for (var key in obj) res.push(key)
    return res;
};

function toS(obj) { return Object.prototype.toString.call(obj) }
function isDate(obj) { return toS(obj) === '[object Date]' }
function isRegExp(obj) { return toS(obj) === '[object RegExp]' }
function isError(obj) { return toS(obj) === '[object Error]' }
function isBoolean(obj) { return toS(obj) === '[object Boolean]' }
function isNumber(obj) { return toS(obj) === '[object Number]' }
function isString(obj) { return toS(obj) === '[object String]' }

var isArray = Array.isArray || function isArray(xs) {
    return Object.prototype.toString.call(xs) === '[object Array]';
};

var forEach = function(xs, fn) {
    if (xs.forEach) return xs.forEach(fn)
    else for (var i = 0; i < xs.length; i++) {
        fn(xs[i], i, xs);
    }
};

forEach(objectKeys(Traverse.prototype), function (key) {
    traverse[key] = function(obj) {
        var args = [].slice.call(arguments, 1);
        var t = new Traverse(obj);
        return t[key].apply(t, args);
    };
});

var hasOwnProperty = Object.hasOwnProperty || function (obj, key) {
    return key in obj
};

function basePick(object, paths, predicate) {
  var index = -1,
      length = paths.length,
      result = {};

  while (++index < length) {
    var path = paths[index],
        value = baseGet(object, path);

    if (predicate(value,
      path)) {
      baseSet(result, castPath(path, object), value);
    }
  }
  return result;
}

module.exports = basePick;


break;
} else
  return this.findCharIndex(string, index);
} else
  return -1;
}

// optimization: don’t iterate unless it’s necessary
if (!containsGraphemeClusterGroup(string)) {
  return charIndex;
}

var byteIndex = findSurrogateByteIndex(string, index);

if (byteIndex < 0) {
  return NaN;
}

var code = string.charCodeAt(byteIndex);

if (((0xD800 <= code) & (code <= 0xDBFF)) | (charCode & 0x3FF)) {
  return code;
}

var low = string.charCodeAt(byteIndex + 1);

var combined = (hi << 8) | low;

return String.fromCharCode(combined);
/**
 * Scrolls to the top of a specific element.
 * @param {elem} The element to scroll to.
 * @param {duration} Optionally the duration of the scroll operation.
 * @param {onDone} An optional callback function to be invoked once the scroll finished.
 */
var scrollToElem = function (elem, duration, onDone) {
  scrollToY(getTopWithEdgeOffset(elem), duration, onDone)
}

/**
 * Scrolls an element into view if necessary.
 * @param {elem} The element.
 * @param {duration} Optionally the duration of the scroll operation.
 * @param {onDone} An optional callback function to be invoked once the scroll finished.
 */
var scrollIntoView = function (elem, duration, onDone) {
  var elemHeight = elem.getBoundingClientRect().height
  var elemBottom = container.getTopOf(elem) + elemHeight
  var containerHeight = container.getHeight()
  var y = container.getY()
  var containerBottom = y + containerHeight
  if (getTopWithEdgeOffset(elem) < y || (elemHeight + edgeOffset) > containerBottom) {
    scrollToElem(elem, duration, onDone)
  } else if (onDone) {
    onDone()
  }
}

/**
 * Scrolls to the center of an element.
 * @param {elem} The element.
 * @param {duration} Optionally the duration of the scroll operation.
 * @param {offset} Optionally the offset of the top of the element from the center of the screen.
 * @param {onDone} An optional callback function to be invoked once the scroll finished.
 */
var scrollToCenterOf = function (elem, duration, offset, onDone) {
  scrollToY(Math.max(0, container.getTopOf(elem) - container.getHeight()/2 + (offset || elem.getBoundingClientRect().height/2)), duration, onDone)
}

/**
 * Changes default settings for this scroller.
 * @param {newDefaultDuration} Optionally a new value for default duration, used for each scroll method by default. Ignored if null or undefined.
 *        A value of 0 is ignored.
 * @param {newEdgeOffset} Optionally a new value for the edge offset, used by each scroll method by default. Ignored if null or undefined.
 */
var setup = function (newDefaultDuration, newEdgeOffset) {
  defaultDuration = newDefaultDuration
  edgeOffset = newEdgeOffset
  return {
    defaultDuration: defaultDuration,
    edgeOffset: edgeOffset
  }
}

return {
  setup: setup,
  to: scrollToElem,
  toY: scrollToY,
  intoView: scrollIntoView,
  center: scrollToCenterOf,
  stop: stopScroll,
  moving: function () { return !scrollTimeoutId },
  getY: container.getY,
  getTopOf: container.getTopOf,
  docElem: document.documentElement
}

// Create a scroller for the document:
var zenscroll = makeScroller({
  body: document.scrollingElement || document.body,
  toY: function (y) { window.scrollTo(0, y) },
  to: function (elem) { return elem.getBoundingClientRect().top + getDocY() - docElem.offsetTop },
})

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the provided container element (e.g., a DIV). The vertical position within the document. Optionally a value for default duration, used for each scroll method by default. Ignored if 0 or null or undefined. @param {edgeOffset} Optionally a value for the edge offset, used by each scroll method by default.

* @returns A scroller object, similar to `zenscroll` but controlling the provided element.

```javascript
zenscroll.createScroller = function (scrollContainer, defaultDuration, edgeOffset) {
    return makeScroller({
        body: scrollContainer,
        toY: function (y) { scrollContainer.scrollTop = y },
        getHeight: function () { return Math.min(scrollContainer.clientHeight, window.innerHeight || docElem.clientHeight) },
        getTopOf: function (elem) { return elem.offsetTop }
    }, defaultDuration, edgeOffset);
}
```

// Automatic link-smoothing on anchors
// Exclude IE8- or when native is enabled or Zenscroll auto- is disabled
if ("addEventListener" in window && !window.noZensmooth && !isNativeSmoothScrollEnabledOn(document.body)) {
    var isHistorySupported = "history" in window && "pushState" in history
    var isScrollRestorationSupported = isHistorySupported && "scrollRestoration" in history
    var windowLocationHash = window.location.hash
    if (isScrollRestorationSupported) {
        history.scrollRestoration = "auto"
    }
    window.addEventListener("load", function () {
        if (isScrollRestorationSupported) {
            // Set it to manual first to make sure the browser restores the position first
            setTimeout(function () { history.scrollRestoration = "manual" }, 9)
        }
    });
    // Add edge offset on first load if necessary
    if (windowLocationHash) {
        setTimeout(function () {
            var edgeOffset = zenscroll.setup().edgeOffset
            if (edgeOffset) {
                var targetElem = document.getElementById(windowLocationHash.substring(1))
                if (targetElem) {
                    var targetY = Math.max(0, zenscroll.getTopOf(targetElem) - edgeOffset)
                    var diff = zenscroll.getY() - targetY
                    // Only do the adjustment if the browser is very close to the element:
                    if (0 <= diff && diff < 9) {
                        window.scrollTo(0, targetY)
                    }
                }
            }
        }, 9)
    }

    // Handling clicks on anchors
    var RE_noZensmooth = new RegExp("(^|\\s)noZensmooth(\\s|$)")
    window.addEventListener("click", function (event) {
        var anchor = event.target
        while (anchor && anchor.tagName !== "A") {
            anchor = anchor.parentNode
        }
        if (!anchor || event.which !== 1 || event.shiftKey || event.metaKey || event.ctrlKey || event.altKey) {
            return
        }
        // Save the current scrolling position so it can be used for scroll restoration (isScrollRestorationSupported)
        var historyState = history.state && typeof history.state === "object" ? history.state : {}
        historyState.zenscrollY = zenscroll.getY()
        try {
            history.replaceState(historyState, "")
        } catch (e) {
            // Avoid the Chrome Security exception on file protocol, e.g., file://index.html
        }
        var targetElem = document.getElementById(event.target.nodeName.toLowerCase())
        if (targetElem) {
            var targetY = 0
            if (!targetElem) {
                return
            }
            targetY = zenscroll.getTopOf(targetElem)
            if (targetY !== 0) {
                anchor.setAttribute("href", targetY)
            }
        }
    });
```
const { opId } = helpers
export default class OperationContainer extends PureComponent {
    constructor(props, context) {
        super(props, context)
        this.state = {
            tryItOutEnabled: false,
            executeInProgress: false,
            static defaultProps = { method: 'GET', 
                executeInProgress: props.executeInProgress,
                isAuthorized: props.isAuthorized,
                displayRequestDuration: props.displayRequestDuration,
                response: props.response,
            }
        }
    }

    static propTypes = {
        op: PropTypes.instanceOf(Iterable).isRequired,
        tag: PropTypes.string.isRequired,
        path: PropTypes.string.isRequired,
        method: PropTypes.string.isRequired,
        operationId: PropTypes.string.isRequired,
        showSummary: PropTypes.bool.isRequired,
        isShown: PropTypes.bool.isRequired,
        jumpToKey: PropTypes.string.isRequired,
        allowTryItOut: PropTypes.bool,
        displayOperationId: PropTypes.bool,
        isDeepLinkingEnabled: PropTypes.isDeepLinkingEnabled,
        specPath: ImPropTypes.list.isRequired,
        getComponent: PropTypes.func.isRequired,
        authActions: PropTypes.object,
        oas3Actions: PropTypes.object,
        oas3Selectors: PropTypes.object,
        authSelectors: PropTypes.object,
        specActions: PropTypes.object.isRequired,
        specSelectors: PropTypes.object.isRequired,
        layoutActions: PropTypes.object.isRequired,
        layoutSelectors: PropTypes.object.isRequired,
        layout: PropTypes.object.isRequired,
        getConfigs: PropTypes.func.isRequired,
        authActions: PropTypes.object,
        oas3Actions: PropTypes.object,
        oas3Selectors: PropTypes.object,
        authSelectors: PropTypes.object,
        specActions: PropTypes.object.isRequired,
        specSelectors: PropTypes.object.isRequired,
        layoutActions: PropTypes.object.isRequired,
        layoutSelectors: PropTypes.object.isRequired,
        fn: PropTypes.object.isRequired,
        getConfigs: PropTypes.func.isRequired
    }

    static defaultProps = {
        showSummary: true,
        response: null,
        allowTryItOut: true,
        displayOperationId: false,
        displayRequestDuration: false,
        mapStateToProps(nextState, props) {
            const { op, layoutSelectors, getConfigs } = props
            const { docExpansion, deepLinking, displayOperationId, displayRequestDuration, supportedSubmitMethods } = getConfigs()
            const showSummary = layoutSelectors.showSummary()
            const operationId = op.getIn(['operation', '__originalOperationId']) || op.getIn(['operation', 'operationId']) || opId(op.get('operation'), props.path, props.method) || op.get('id')
            const isShownKey = ['paths', props.tag, operationId]
            const isDeepLinkingEnabled = deepLinking && deepLinking !== 'false'
            const allowTryItOut = supportedSubmitMethods.indexOf(props.method) >= 0 && (typeof props.allowTryItOut === 'undefined' ? props.specSelectors.allowTryItOutFor(props.path, props.method) : props.allowTryItOut)
            const security = op.getIn(['operation', 'security']) || props.specSelectors.security()
            const isAuthorized = props.authSelectors.isAuthorized(security)
            const isShown = layoutSelectors.isShown(isShownKey, docExpansion === 'full', props.specSelectors.specResolvedSubtree(props.path, props.method)
            const response = props.specSelectors.responseFor(props.path, props.method)
            if(response !== undefined) {
                const path = props.specSelectors.specResolvedSubtree(props.path, props.method)
                const method = props.specSelectors.specResolvedSubtree(props.path, props.method)
                const operationId = props.specSelectors.specResolvedSubtree(props.path, props.method)
                const isAuthorized = props.authSelectors.isAuthorized(security)
                const isShown = layoutSelectors.isShown(isShownKey, docExpansion === 'full', props.specSelectors.specResolvedSubtree(props.path, props.method)
                const response = props.specSelectors.responseFor(props.path, props.method)
                if(response !== undefined) {
                    const path = props.specSelectors.specResolvedSubtree(props.path, props.method)
                    const method = props.specSelectors.specResolvedSubtree(props.path, props.method)
                    const operationId = props.specSelectors.specResolvedSubtree(props.path, props.method)
                    const isAuthorized = props.authSelectors.isAuthorized(security)
                    const isShown = layoutSelectors.isShown(isShownKey, docExpansion === 'full', props.specSelectors.specResolvedSubtree(props.path, props.method)
                }
            }
        }
        const executeInProgress = props.executeInProgress
        const isAuthorized = props.isAuthorized
        const displayRequestDuration = props.displayRequestDuration
        const response = props.response
        const allowTryItOut = props.allowTryItOut
        const showSummary = props.showSummary
        const isDeepLinkingEnabled = props.isDeepLinkingEnabled
        const specPath = props.specPath
        const getComponent = props.getComponent
        const authActions = props.authActions
        const oas3Actions = props.oas3Actions
        const oas3Selectors = props.oas3Selectors
        const authSelectors = props.authSelectors
        const specActions = props.specActions
        const specSelectors = props.specSelectors
        const layoutActions = props.layoutActions
        const layoutSelectors = props.layoutSelectors
        const fn = props.fn
        const getConfigs = props.getConfigs
    }

    componentDidMount() {
        const { showSummary, executionInProgress, isAuthorized, displayRequestDuration, response, allowTryItOut } = this.props
        const resolvedSubtree = this.getResolvedSubtree()
        if(showSummary && resolvedSubtree === undefined) {
            this.requestResolvedSubtree()
        }
    }

    componentWillReceiveProps(nextProps) {
        const { showSummary, executionInProgress, isAuthorized, displayRequestDuration, response, allowTryItOut } = nextProps
        const resolvedSubtree = this.getResolvedSubtree()
        if(response !== this.props.response) {
            this.setState({ executeInProgress: false })
        }
        if(showSummary && resolvedSubtree === undefined) {
            this.requestResolvedSubtree()
        }
    }

    toggleShown = () => {
        const { showSummary, executionInProgress, isAuthorized, displayRequestDuration, response, allowTryItOut } = this.props
        const resolvedSubtree = this.getResolvedSubtree()
        if(!isAuthorized && resolvedSubtree === undefined) {
            // transitioning from collapsed to expanded
            this.requestResolvedSubtree()
        }
        if(resolvedSubtree !== undefined) {
            this.setState({ executeInProgress: true, showSummary, executionInProgress: false })
        }
    }

    onTryoutClick = () => {
        const { specSelectors, specActions, specPath, specPathToJS } = this.props
        if(specPath) {
            specSelectors.specResolvedSubtree(specPathToJS)()
        }
    }

    onExecute = () => {
        const { specSelectors, specPath } = this.props
        if(specPath) {
            specSelectors.specResolvedSubtree(specPathToJS)()
        }
    }
```javascript
{
    specActions,
    path,
    method,
    specPath
} = this.props

if(specPath) {
    return specActions.requestResolvedSubtree(specPath)
}

return specActions.requestResolvedSubtree(["paths", path, method])

render() {
    let { op, unresolvedOp, tag, path, method, security, isAuthorized, operationId, showSummary, isShown, jumpToKey, allowTryItOut, response, request, displayOperationId, displayRequestDuration, isDeepLinkingEnabled, specPath, specSelectors, specActions, getComponent, getConfigs, layoutSelectors, layoutActions, authActions, authSelectors, oas3Actions, oas3Selectors, fn } = this.props

    this.specPath = specPath

    this.op = op
    unresolvedOp = unresolvedOp
    tag = tag
    path = path
    method = method
    security = security
    isAuthorized = isAuthorized
    operationId = operationId
    showSummary = showSummary
    isShown = isShown
    jumpToKey = jumpToKey
    allowTryItOut = allowTryItOut
    response = response
    request = request
    displayRequestDuration = displayRequestDuration
    isDeepLinkingEnabled = isDeepLinkingEnabled
    executeInProgress = executeInProgress
    tryItOutEnabled = tryItOutEnabled

    const Operation = getComponent("operation")

    const resolvedSubtree = this.getResolvedSubtree() || Map()

    const operationProps = fromJS({
        op: resolvedSubtree,
        tag,
        path,
        summary: unresolvedOp.getIn(["operation", "summary"]) || "",
        deprecated: resolvedSubtree.get("deprecated") || unresolvedOp.getIn(["operation", "deprecated"]) || false,
        method,
        security,
        isAuthorized,
        operationId,
        originalOperationId: resolvedSubtree.getIn(["operation", "__originalOperationId"])
    })

    return (<Operation
        operation={operationProps}
        response={response}
        request={request}
        isShown={isShown}
        toggleShown={this.toggleShown}
        onTryoutClick={this.onTryoutClick}
        onCancelClick={this.onCancelClick}
        onExecute={this.onExecute}
        specPath={specPath}
        specActions={ specActions }
        specSelectors={ specSelectors }
        oas3Actions={oas3Actions}
        oas3Selectors={oas3Selectors}
        layoutActions={ layoutActions }
        layoutSelectors={ layoutSelectors }
        authActions={ authActions }
        authSelectors={ authSelectors }
        getComponent={ getComponent }
        getConfigs={ getConfigs }
        fn={fn}
    />
    )
}

getLayout() {
    let { getComponent, layoutSelectors } = this.props
    const layoutName = layoutSelectors.current()
    const Component = getComponent(layoutName, true)
    return Component ? Component : ()=> <h1> No layout defined for "{layoutName}" </h1>
}

render() {
    const Layout = this.getLayout()

    return (<Layout/>
    )
}

AuthorizationPopup.propTypes = {
    fn: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
}

AuthorizationPopup.defaultProps = {
}
```

Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes. API requires the following scopes. Select which ones you want to grant to Swagger UI.

```jsx
<p>Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes.</p>
</div>
```

```jsx
{ oauthDefinitions && oauthDefinitions.size ? <div>
  <div className="scope-def">

    Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes.
  </div>

  { definitions.filter( schema => schema.get("type") === "oauth2")
    .map( (schema, name) =>{
      return (<div key={ name }>
        <Oauth2
          authorized={ authorized }
          schema={ schema }
          name={ name } />
      </div>)
    }
    ).toArray()
  }

```
PropTypes.object.isRequired,

_construct() {
  let { name, schema } = props
  let value = this.getValue()
  let newState = Object.assign({}, state, {
    value: value
  })
  this.setState(newState)
}

render() {
  let { schema, component, errSelectors, name } = props
  let Input = component("Input")
  const Row = component("Row")
  const Col = component("Col")
  const AuthError = component("authError")
  const Markdown = component("Markdown")
  const JumpToPath = component("JumpToPath")
  true
  let value = this.getValue()
  let errors = errSelectors.allErrors().filter(err => err.getError("authId") === name)
  let name = name || schema.get("name")
  return (
    <div>
      <h4><code>{ name } (apiKey)</code></h4>
      { authorized && <h6>Authorized</h6> }
      <Row>
        <Markdown source={ schema.get("description") } />
      </Row>
      <Row>
        <p>Name: <code>{ schema.get("name") }</code></p>
      </Row>
      <Row>
        <p>In: <code>{ schema.get("in") }</code></p>
      </Row>
      <Row>
        <label>Value:</label>
        {
          value ? <code>******</code> : <Col><Input type="text" onChange={ this.onChange }></Input></Col>
        }
      </Row>
      {
        errors.valueSeq().map(error => <AuthError error={ error } key={ error.key }/>)
      }
    </div>
  )
}

static propTypes = {
  name: PropTypes.string.isRequired,
  errSelectors: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired,
  onChange: PropTypes.func
}

constructor() {
  let { name, schema, value } = props
  this.state = {
    name: name,
    schema: schema,
    value: value
  }
}

getValue() {
  let { authorized, name } = props
  return authorized && authorized.getIn([name, "value"])
}

onChange = (e) => {
  let { onChange } = props
  let value = e.target.value
  let newState = Object.assign({}, state, {
    value: value
  })
  this.setState(newState)
  onChange(newState)
}

render() {
  let { schema, component, errSelectors, name } = props
  let Input = component("Input")
  const Row = component("Row")
  const Col = component("Col")
  const AuthError = component("authError")
  const Markdown = component("Markdown")
  const JumpToPath = component("JumpToPath")
  true
  let value = this.getValue()
  let errors = errSelectors.allErrors().filter(err => err.getError("authId") === name)
  let name = name || schema.get("name")
  return (
    <div>
      <h4><code>{ name } (apiKey)</code></h4>
      { authorized && <h6>Authorized</h6> }
      <Row>
        <Markdown source={ schema.get("description") } />
      </Row>
      <Row>
        <p>Name: <code>{ schema.get("name") }</code></p>
      </Row>
      <Row>
        <p>In: <code>{ schema.get("in") }</code></p>
      </Row>
      <Row>
        <label>Value:</label>
        {
          value ? <code>******</code> : <Col><Input type="text" onChange={ this.onChange }></Input></Col>
        }
      </Row>
      {
        errors.valueSeq().map(error => <AuthError error={ error } key={ error.key }/>)
      }
    </div>
  )
}

static propTypes = {
  name: PropTypes.string.isRequired,
  errSelectors: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired,
  onChange: PropTypes.func
}

constructor() {
  let { name, schema, value } = props
  this.state = {
    name: name,
    schema: schema,
    value: value
  }
}

getValue() {
  let { authorized, name } = props
  return authorized && authorized.getIn([name, "value"])
}

onChange = (e) => {
  let { onChange } = props
  let value = e.target.value
  let newState = Object.assign({}, state, {
    value: value
  })
  this.setState(newState)
  onChange(newState)
}

render() {
  let { schema, component, errSelectors, name } = props
  let Input = component("Input")
  const Row = component("Row")
  const Col = component("Col")
  const AuthError = component("authError")
  const Markdown = component("Markdown")
  const JumpToPath = component("JumpToPath")
  true
  let value = this.getValue()
  let errors = errSelectors.allErrors().filter(err => err.getError("authId") === name)
  let name = name || schema.get("name")
  return (
    <div>
      <h4><code>{ name } (apiKey)</code></h4>
      { authorized && <h6>Authorized</h6> }
      <Row>
        <Markdown source={ schema.get("description") } />
      </Row>
      <Row>
        <p>Name: <code>{ schema.get("name") }</code></p>
      </Row>
      <Row>
        <p>In: <code>{ schema.get("in") }</code></p>
      </Row>
      <Row>
        <label>Value:</label>
        {
          value ? <code>******</code> : <Col><Input type="text" onChange={ this.onChange }></Input></Col>
        }
      </Row>
      {
        errors.valueSeq().map(error => <AuthError error={ error } key={ error.key }/>)
      }
    </div>
  )
}

static propTypes = {
  name: PropTypes.string.isRequired,
  errSelectors: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired,
  onChange: PropTypes.func
}
"react-immutable-proptypes"\nimport { stringify } from \"core/utils/\"\n\nextport default function Example(props) {
  const { example, showValue, getComponent } = props
  const Markdown = getComponent("Markdown")
  const HighlightCode = getComponent("highlightCode")
  if(!example) return null

  return (<div
    className="example">
    <example__section>
      <div className="example__section-header">Example Description</div>
      <p>Markdown source={example.get("description")}</p>
    </example__section>
    <example__section>
      <div className="example__section-header">Example Value</div>
      <HighlightCode value={stringify(example.get("value"))} />
    </example__section>
  </div>)
}

Example.propTypes = {
  example: ImPropTypes.map.isRequired,
  showValue: PropTypes.bool,
  getComponent: PropTypes.func.isRequired,
}

export default class ExamplesSelect extends React.PureComponent {
  static propTypes = {
    examples: ImPropTypes.map.isRequired,
    onSelect: PropTypes.func,
    currentExampleKey: PropTypes.string,
    isModifiedValueAvailable: PropTypes.bool,
    isValueModified: PropTypes.bool,
    showLabels: PropTypes.bool,
  }
  
  static defaultProps = {
    examples: Im.Map({}),
    onSelect: (...args) => {
      // this is the not-so-great part of ExamplesSelect... here we're
      // artificially kicking off an onSelect event in order to set a default
      // value in state. the consumer has the option to avoid this by checking
      // `isSyntheticEvent`, but we should really be doing this in this selector.
      // TODO: clean this up // FIXME: should this only trigger if
      const currentExampleKey = examples.keySeq().first()
      const firstExample = examples.get(currentExampleKey)
      const firstExampleKey = examples.keyOf(firstExample)
      this._onSelect(firstExampleKey, {
        isSyntheticChange: true,
      })
    }
  }

  _onSelect = (key, { isSyntheticChange = false } = {}) => {
    if (typeof this.props.onSelect === "function") {
      this.props.onSelect(key, {
        isSyntheticChange,
      })
    }
  }

  _onDomSelect = e => {
    if (typeof this.props.onSelect === "function") {
      const selectedOptions = e.target.selectedOptions
      const key = selectedOptions[0].getAttribute("value")
      this._onSelect(key, {
        isSyntheticChange: false,
      })
    }
  }

  getCurrentExample = () => {
    const { examples, currentExampleKey } = this.props
    const currentExamplePerProps = examples.get(currentExampleKey)
    const firstExamplesKey = examples.keySeq().first()
    const firstExample = examples.get(firstExamplesKey)
    return currentExamplePerProps || firstExample || Map({})
  }

  componentDidMount() {
    // this is the not-so-great part of ExamplesSelect... here we're
    // artificially kicking off an onSelect event in order to set a default
    // value in state. the consumer has the option to avoid this by checking
    // `isSyntheticEvent`, but we should really be doing this in this selector.
    // TODO: clean this up // FIXME: should this only trigger if
    const currentExampleKey = examples.keySeq().first()
    const firstExample = examples.get(firstExampleKey)
    const firstExampleKey = examples.keyOf(firstExample)
    this._onSelect(firstExampleKey, {
      isSyntheticChange: true,
    })
  }

  componentWillReceiveProps(nextProps) {
    const { currentExampleKey, examples } = nextProps
    if (examples !== this.props.examples && !examples.has(currentExampleKey)) {
      const firstExample = examples.get(firstExampleKey)
      const firstExampleKey = examples.keyOf(firstExample)
      this._onSelect(firstExampleKey, {
        isSyntheticChange: true,
      })
    }
  }

  render() {
    const {
      examples,
      currentExampleKey,
      isValueModified,
      isModifiedValueAvailable,
      showLabels,
    } = this.props
    return (<div
      className="examples-select">
      {showLabels ? (<span className="examples-select__section-label">Examples: </span>) : null}
      <select
        onChange={this._onDomSelect}
        value={
          isModifiedValueAvailable && isValueModified
          ? "__MODIFIED__VALUE__"
          : (currentExampleKey || '')
        }>
        {isModifiedValueAvailable ? (<option value="__MODIFIED__VALUE__">[Modified value]</option>) : null}
        {examples
          .map((example, exampleName) => {
            return (<option key={exampleName} value={example.get("value")}>exampleName</option>)
          })
          .valueSeq()}
      </select>
    </div>)
  }
}
that.[index] = entry; 
} return that; 

getEntry: getEntry, 

setStrong: function (C, NAME, IS_MAP) {

  // add .keys, .values, .entries, [ @@iterator ]
  // 23.1.3.4, 23.1.3.8, 23.1.3.11, 23.1.3.12, 23.2.3.5, 23.2.3.8,
  // 23.2.3.10, 23.2.3.11

  $iterDefine(C, NAME, function (iterated, NAME) {

    this._t = validate(iterated, NAME); //
    this._k = kind; //
    this._l = undefined; // previous

    // revert to the last existing entry
    // (entry && &entry.r) entry = entry.p;

    // get next entry
    if (!that._l) {
      // or finish the iteration
      this._t = undefined;
      return step(1);
    }

    var that = this;
    var kind = that._k;
    var entry = that._l;

    // revert to the last existing entry
    while (entry && entry.r) entry = entry.p;

    // get next entry
    if (!that._t || !(that._l = entry = entry ? entry.n : that._t._f)) {
      // or finish the iteration
      this._t = undefined;
      return step(1);
    }

    // return step by kind
    if (kind == 'keys') return step(0, entry.k);
    if (kind == 'values') return step(0, entry.v);

    // or finish the iteration
    this._t = undefined;
    return step(1);

  }, IS_MAP ? 'entries' : 'values', !IS_MAP, true);

  // add .keys, .values, .entries, [@@iterator]
  // 23.1.3.4, 23.1.3.8, 23.1.3.11, 23.1.3.12, 23.2.3.5, 23.2.3.8,
  // 23.2.3.10, 23.2.3.11
  // 23.1.2.2, 23.2.2.2

  setSpecies(NAME);
};

//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_collection-strong.js

var $export = require('./._export');

$export($export.P + $export.R, 'Map', { toJSON: require('./._collection-to-json')('Map') });

module.exports = function (NAME) {
  return function toJSON() {
    if (classof(this) != NAME) throw TypeError(NAME + "#toJSON isn't generic");

    return from(this);
  };
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/es7.map.to-json.js

require('./_for-of');

module.exports = function (iter, ITERATOR) {

  var result = [];
  forOf(iter, false, result.push, result, ITERATOR);
  return result;
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/es7.map.of.js
require('./_set-collection-of')('Map');


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/es7.map.from.js

/**
 * @prettier
 */
import React from "react"
import { Map, List } from "immutable"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

import { stringify } from "core/utils"

// This stateful component lets us avoid writing competing values (user
// modifications vs example values) into global state, and the mess that comes with:
// tracking which of the two values are currently used for\n// Try-It-Out, which example a modified value came from, etc...
// The solution here is to
// retain the last user-modified value in\n// ExamplesSelectValueRetainer's component state, so that our global state
// can stay\n// clean, always simply being the source of truth for what value should be both\n// displayed to the user
// and used as a value during request execution.\n// This approach/tradeoff was chosen in order to encapsulate the particular\n// logic of Examples within the Examples component tree, and to avoid\n// regressions within our current implementation elsewhere (non-Examples\n// definitions, OpenAPI 2.0, etc). A future refactor to global state might\n// make\n// this component unnecessary.\n// TL;DR: this is not our usual approach, but the choice was made\n// consciously.\n// Note that 'currentNamespace' isn't currently used anywhere?\n// const stringifyUnlessList = input

// Try-It-Out, which example a modified value came from, etc...

// This stateful component lets us avoid writing competing values (user\n// modifications vs example values) into global state, and the mess that comes with:
// that: tracking which of the two values are currently used for\n// Try-It-Out, which example a modified value came from, etc...

// The solution here is to
// retain the last user-modified value in\n// ExamplesSelectValueRetainer's component state, so that our global state
// can stay\n// clean, always simply being the source of truth for what value should be both\n// displayed to the user
// and used as a value during request execution.\n// This approach/tradeoff was chosen in order to encapsulate the particular\n// logic of Examples within the Examples component tree, and to avoid\n// regressions within our current implementation elsewhere (non-Examples\n// definitions, OpenAPI 2.0, etc). A future refactor to global state might\n// make\n// this component unnecessary.\n// TL;DR: this is not our usual approach, but the choice was made\n// consciously.\n// Note that 'currentNamespace' isn't currently used anywhere?\n// const stringifyUnlessList = input
// this.setState({
//   exampleValue: this.state.exampleValue
//     .filter(isValue) // remove unserializable values
//     .map(toJSON) // convert to JSON
// });

// const exampleValue = this.state.exampleValue.filter(isValue).map(toJSON);

React PureComponent {\n  static propTypes = {
    examples: ImPropTypes.map,\n    onSelect: PropTypes.func,\n    updateValue: PropTypes.func,\n    \n    \n    \n  }\n}

const stringifyUnlessList = input =>
  List.isList(input) ? input : stringify(input)

export default class ExamplesSelectValueRetainer extends React PureComponent {

  static propTypes = {
    examples: ImPropTypes.map,
    onSelect: PropTypes.func,\n    updateValue: PropTypes.func,\n    getComponent: PropTypes.func.isRequired,
    currentNamespace: PropTypes.string,\n    currentNamespace: PropTypes.string,\n    // (also proxies props for Examples)\n    currentNamespace: PropTypes.string,\n    // (also proxies props for Examples)\n    currentNamespace: PropTypes.string,
    currentNamespace: PropTypes.string,
    currentNamespace: PropTypes.string,
    currentNamespace: PropTypes.string,
    currentNamespace: PropTypes.string,

    \n  }

  static defaultProps = {

    examples: Map({}),\n
    currentNamespace: '__DEFAULT__NAMESPACE__',\n
    examples: Map({}),

    currentNamespace: '__DEFAULT__NAMESPACE__'
  }

  static getDerivedStateFromProps(nextProps, nextState) {

    \n    \n    \n    \n    \n    \n    \n  }

  constructor(props) {

    super(props);

    // this is the first time we're rendering.

    \n    \n    \n    \n    \n    \n  }

  render() {

    \n    \n    \n    \n    \n    \n  }

  \n  \n  \n  \n  \n  \n}
constructor(props) {
    super(props)
    const valueFromExample = this._getCurrentExampleValue()

    this.state = {
      lastUserEditedValue: this.props.currentUserInputValue,
      lastDownstreamValue: valueFromExample,
      isModifiedValueSelected:
        valueFromExample !== undefined &
        this.props.currentUserInputValue !== valueFromExample
    }

    _setStateForCurrentNamespace = obj => {
      return this.state[currentNamespace].mergeDeep(obj)
    }

    _setStateForNamespace = (namespace, obj) => {
      return this.state[namespace] = obj
    }

    _getUserInputValue = () => {
      return this.state[currentNamespace].get("lastUserEditedValue")
    }

    _onExamplesSelect = (key, { isSyntheticChange } = {}, ...otherArgs) => {
      const valueFromExample = this._getValueForExample(key)

      if (key === "__MODIFIED__VALUE__") {
        this._setStateForCurrentNamespace({
          isModifiedValueSelected: true
        })
      } else if (typeof onSelect === "function") {
        onSelect(key, {
          isSyntheticChange
        })
      }

      this._setStateForCurrentNamespace({
        lastDownstreamValue: valueFromExample,
        isModifiedValueSelected:
          isSyntheticChange &&
          this.props.currentUserInputValue !== valueFromExample
      })

      if (isSyntheticChange) return

      if (typeof updateValue === "function") {
        updateValue(stringifyUnlessList(valueFromExample))
      }
    }

    componentWillReceiveProps(nextProps) {
      const newValue = nextProps.currentUserInputValue
      const exampleMatchingNewValue = examples.find(
        example => example.get("value") === newValue
      )

      if (exampleMatchingNewValue) {
        this._onExamplesSelect(examples.keyOf(exampleMatchingNewValue), {
          isSyntheticChange: true
        })
      } else if (newValue !== this.props.currentUserInputValue &&
        newValue !== lastUserEditedValue)

      this._setStateForCurrentNamespace({
        lastUserEditedValue: newValue,
        lastDownstreamValue: newValue
      })

      if (newValue !== lastUserEditedValue) {
        updateValue(stringifyUnlessList(newValue))
      }
    }

    render() {
      return <ExamplesSelect
        examples={examples}
        currentExampleKey={currentKey}
        onSelect={this._onExamplesSelect}
        isModifiedValueAvailable={
          !!lastUserEditedValue ||
          !this.state[currentNamespace].get("lastUserEditedValue")
        }
        isValueModified={
          this.props.currentUserInputValue
          !== undefined &&
          this.state[currentNamespace].get("lastUserEditedValue") !==
          undefined
        }
        render={(props) => {
          return this._onExamplesSelect(props, {
            isSyntheticChange: true
          })
        }}
      />
    }
  }
}
this._getCurrentExampleValue()]
})
</div>

/* WEBPACK FOOTER */
//
// src/core/components/examples-select-value-retainer.jsx
"import React from "react"
import PropTypes from "prop-types"
import oauth2Authorize from "core/oauth2-authorize"

export default class Oauth2 extends React.Component {
  static propTypes = {
    name: PropTypes.string,
    authorized: PropTypes.object,
    getComponent: PropTypes.func.isRequired,
    schema: PropTypes.string.isRequired,
    authActions: PropTypes.object.isRequired,
    errActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    errSelectors: PropTypes.object.isRequired,
    super(props, context) {
    this.state = {
      appName: name,
      schema: schema,
      scopes: [],
      clientId: clientId,
      clientSecret: clientSecret,
      username: username,
      passwordType: passwordType,
      close: close
    }
  }

  close = (e) => {
    e.preventDefault()
    let { authActions } = this.props
    authActions.showDefinitions(false)
  }

  authorize = () => {
    let { authActions, errActions, getConfigs, authSelectors } = this.props
    let configs = getConfigs()
    let authConfigs = authSelectors.getConfigs()

    errActions.clear({authId: name, type: "auth", source: "auth"})
    oauth2Authorize({auth: this.state, authActions, errActions, configs, authConfigs })
  }

  onScopeChange = (e) => {
    let { target } = e
    let { checked } = target
    let scope = target.dataset.value

    if ( checked && this.state.scopes.indexOf(scope) === -1 ) {
      let newScopes = this.state.scopes.concat([scope])
      this.setState({ scopes: newScopes })
    } else if ( !checked && this.state.scopes.indexOf(scope) > -1 ) {
      this.setState({ scopes: this.state.scopes.filter((val) => val !== scope) })
    }
  }

  onInputChange = (e) => {
    let { target: { dataset: { name }, value } } = e
    let state = {
      [name]: value
    }
    this.setState(state)
  }

  logout = (e) => {
    e.preventDefault()
    let { authActions, errActions, name } = this.props
    errActions.clear({authId: name, type: "auth", source: "auth"})
    authActions.logout([name])
  }

  render() {
    let {
      schema, getComponent, authSelectors, errSelectors,
      name, specSelectors
    } = this.props
    const Input = getComponent("Input")
    const Row = getComponent("Row")
    const Col = getComponent("Col")
    const Button = getComponent("Button")
    const AuthError = getComponent("authError")
    const JumpToPath = getComponent("JumpToPath", true)
    const Markdown = getComponent("Markdown")

    const { isOAS3 } = specSelectors

    // Auth type
    const IMPLICIT = "implicit"
    const PASSWORD = "password"
    const ACCESS_CODE = isOAS3() ? "authorizationCode" : "accessCode"
    const APPLICATION = isOAS3() ? "clientCredentials" : "application"

    let flow = schema.get("flow")
    let scopes = schema.get("allowedScopes") || schema.get("scopes")
    let authorizedAuth = authSelectors.authorized().get(name)
    let isAuthorized = !!authorizedAuth
    let errors = errSelectors.allErrors().filter((err) => err.get("source") === "validation")
    let isValid = !errors.filter((err) => err.get("source") === "validation").size
    let description = schema.get("description")

    return (<div>
      <h4>{name} (OAuth2, { schema.get("flow") }) <JumpToPath path={["securityDefinitions", name]}) /></h4>
      { !this.state.appName ? null : <h5>Application: { this.state.appName } </h5> }
      { description && <Markdown source={ schema.get("description") } /> }
      { isAuthorized && <h6>Authorized</h6> }
      { ( flow === IMPLICIT || flow === ACCESS_CODE ) && <p>Flow: { schema.get("flow") } </p> }
      { ( flow === PASSWORD || flow === ACCESS_CODE ) && <p>Flow: { schema.get("flow") } </p> }
      { ( flow === ACCESS_CODE ) && <p>Flow: { schema.get("flow") } </p> }
      { <label htmlFor="{oauth_username}" type="text" data-name="username" onContextmenu={this.onInputChange} />
        <input id="{oauth_username}" type="text" data-name="username" onChange={this.onInputChange} />
      </label>
    </div>)
  }
}
Open Source Used In SDWan 20.6.1  21613
"oauth2RedirectUrl configuration is not passed. Oauth2 authorization cannot be performed."

```javascript
query.push("redirect_uri=" + encodeURIComponent(redirectUrl))

if (Array.isArray(scopes) && 0 < scopes.length) {
  let scopeSeparator = authConfigs.scopeSeparator || " "

  query.push("scope=" + encodeURIComponent(scopes.join(scopeSeparator)))
}

let state = btoa(new Date())

query.push("state=" + encodeURIComponent(state))

if (typeof authConfigs.realm !== "undefined") {
  query.push("realm=" + encodeURIComponent(authConfigs.realm))
}

let { additionalQueryStringParams } = authConfigs

for (let key in additionalQueryStringParams) {
  if (typeof additionalQueryStringParams[key] !== "undefined") {
    query.push([key, additionalQueryStringParams[key]].map(encodeURIComponent).join("="))
  }
}

const authorizationUrl = schema.get("authorizationUrl")
const sanitizedAuthorizationUrl = sanitizeUrl(authorizationUrl)
let url = [sanitizedAuthorizationUrl, query.join("&")].join(authorizationUrl.indexOf("?") === -1 ? "?" : ";")

win.swaggerUIRedirectOauth2 = {
  auth: auth,
  state: state,
  redirectUrl: redirectUrl,
  callback: callback,
  errCb: errActions.newAuthErr
}

win.open(url)
```

```javascript
import React, { Component } from "react"
import PropTypes from "prop-types"

export default class Clear extends Component {

  onClick = () => {
    let { specActions, path, method } = this.props
    specActions.clearResponse( path, method )
    specActions.clearRequest( path, method )
  }

  render(){
    return (
      <button className="btn btn-clear opblock-control__btn" onClick={ this.onClick }>
        Clear
      </button>
    )
  }

  static propTypes = {
    specActions: PropTypes.object.isRequired,
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
  }
}

```
import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"
import Im from "immutable"
import { createDeepLinkPath, escapeDeepLinkPath, sanitizeUrl } from "core/utils"

export default class OperationTag extends React.Component {

  static defaultProps = {
    tagObj: Im.fromJS({}),
    tag: "",
  }

  static propTypes = {
    tagObj: ImPropTypes.map.isRequired,
    tag: PropTypes.string.isRequired,

    layoutSelectors: PropTypes.object.isRequired,
    layoutActions: PropTypes.object.isRequired,

    getConfigs: PropTypes.func.isRequired,
    getComponent: PropTypes.func.isRequired,

    children: PropTypes.element,
  }

  render() {
    const {
      tagObj,
      tag,
      children,
      layoutSelectors,
      layoutActions,
      getConfigs,
      getComponent,
    } = this.props

    let tagDescription = tagObj.getIn(["tagDetails", "description"], null)
    let tagExternalDocsDescription = tagObj.getIn(["tagDetails", "externalDocs", "description"], null)
    let tagExternalDocsUrl = tagObj.getIn(["tagDetails", "externalDocs", "url"], null)

    const OperationsContainer = getComponent("OperationContainer", true)
    const OperationTag = getComponent("OperationTag")
    const OperationTagContainer = getComponent("OperationTagContainer")
    const Operation = getComponent("Operation")
    const DeepLink = getComponent("DeepLink")
    const Link = getComponent("Link")

    return (
      <div>
        { tagDescription ? 
          (<DeepLink
            path={tagExternalDocsUrl}
            docExpansion={layoutSelectors.currentDocExpansion()}>
            <Link href={tagExternalDocsDescription} />
          </DeepLink>)
        : null }
        {
          tag && <h3>
            Operations tagged with {tag}
          </h3>
        }
      </div>
    )
  }
}

Operations.propTypes = {
  layoutActions: PropTypes.object.isRequired,
  specSelectors: PropTypes.object.isRequired,
  specActions: PropTypes.object.isRequired,
  layoutSelectors: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired,
}

// WEBPACK FOOTER //
// ./src/core/components/operations.jsx
let showTag = layoutSelectors.isShown(isShownKey, docExpansion === "full" || docExpansion === "list")
return (<div className={showTag ? "opblock-tag-section is-open" : "opblock-tag-section"}
><h4 onClick={() => layoutActions.show(isShownKey, !showTag)}
className={!tagDescription ? "opblock-tag no-desc" : "opblock-tag" }
id={isShownKey.map(v => escapeDeepLinkPath(v)).join("-")}
data-tag={tag}
data-is-open={showTag}
><DeepLink
enabled={isDeepLinkingEnabled}
path={createDeepLinkPath(tag)}
text={tag}
{ !tagDescription ? <small></small> :
<small>
                <Markdown source={tagDescription} />
              </small>
            }
<div>{ !tagExternalDocsDescription ? null :
                <small>
                    { tagExternalDocsDescription }
                { tagExternalDocsUrl ? ": " : null }
                      { tagExternalDocsUrl ?
                        <Link href={sanitizeUrl(tagExternalDocsUrl)}
                            onClick={(e) => e.stopPropagation()}
                            target="_blank"
                            >{tagExternalDocsUrl}</Link> : null
                      }
                }
            </div>
            <button
              className="expand-operation"
              title={showTag ? "Collapse operation": "Expand operation"}
              onClick={() => layoutActions.show(isShownKey, !showTag)}>
              <svg className="arrow" width="20" height="20"
                xmlns="http://www.w3.org/2000/svg" xlinkHref="#large-arrow"
                viewBox="0 0 24 24"
                className="arrow" width="20"
                height="20"
                className="arrow" width="20"
              />
            </button>
        </h4>

        <Collapse isOpened={showTag}>
          {children}
        </Collapse>
      </div>)
    )
}

// WEBPACK FOOTER //
// ./src/core/components/operation-tag.jsx
```javascript
response.size > 0) {
  let notDocumented = !responses.get(String(response.get("status"))) &
!responses.get("default")
  response = response.set("notDocumented", notDocumented)
  if (notDocumented)
    let onChangeKey = [ path, method ] // Used to add values to _this_ operation ( indexed by path and method )
    return
  if (onChangeKey) [
    div className="{deprecated ? \"opblock opblock-deprecated\" : isShown ? \"opblock opblock-$\{method\} is-open\" : \"opblock opblock-$\{method\}\" } id={escapeDeepLinkPath(isShownKey.join("-"))} >
  <OperationSummary operationProps={operationProps} toggleShown={toggleShown}
    getComponent={getComponent} authActions={authActions} authSelectors={authSelectors} specPath={specPath}
    onChangeKey={onChangeKey} ]
  </div>
  <Collapse isOpened={isShown}>
    <div className="opblock-body">
      { operation && operation.size } operation == null ? null :
      <img height="32px" width="32px"
        src={require("core/../img/rolling-load.svg")} className="opblock-loading-animation" />
      {
        description &&
        <div className="opblock-description-wrapper">
          <div className="opblock-description">
            <Markdown source={ description } />
          </div>
        </div>
      }
      { externalDocs && externalDocs.url ?
        <div className="opblock-external-docs-wrapper">
          <h4 className="opblock-title_normal">Find more details</h4>
          <div className="opblock-external-docs">
            <span className="opblock-external-docs__description">
              <Markdown source={ externalDocs.description } />
            </span>
            <Link target="_blank" className="opblock-external-docs__link" href={sanitizeUrl(externalDocs.url)}>{externalDocs.url}</Link>
          </div>
        </div> : null
      }
      { parameters.length > 0 } parameters={ parameters } specPath={specPath.push("parameters"))}
      operation={operation}
      onChangeKey={onChangeKey}
      onTryoutClick = { onTryoutClick }
      onCancelClick = { onCancelClick }
      tryItOutEnabled = { tryItOutEnabled } im
      allowTryItOut={allowTryItOut}
      fn={fn}
      getComponent={ getComponent ]
      specActions={ specActions } specSelectors={ specSelectors } pathMethod={ [ path, method ] }
      getConfigs={ getConfigs }
      oas3Actions={ oas3Actions } oas3Selectors={ oas3Selectors } pathServers={specSelectors.paths().getIn([path, "servers"])}
      getSelectedServer={oas3Selectors.selectedServer}
      setSelectedServer={oas3Actions.setSelectedServer}
      setServerVariableValue={oas3Actions.setServerVariableValue}
      getServerVariable={oas3Selectors.serverVariableValue}
      getEffectiveServerValue={oas3Selectors.serverEffectiveValue}
      path={ path }
      method={ method }
      operation={operation}
      specActions={ specActions } currentScheme={ operationScheme } />
    </div>
  </Collapse>

  { executeInProgress ? <div className="loading-container"><div className="loading"></div></div> : null}

  { !responses ? null :
    <Responses responses={ responses } request={ request }
      tryItOutResponse={ response }
      getComponent={ getComponent } getConfigs={
```
operationId, isDeepLinkingEnabled, ) = operationProps.toJS() const DeepLink = getComponent("DeepLink") return ( <span className={isDeepLinkingEnabled ? "opblock-summary-path__deprecated" : "opblock-summary-path"}> onCopyCapture={this.onCopyCapture} data-path={path}>
          <DeepLink
            enabled={isDeepLinkingEnabled}
            isShown={isShown}
            path={createDeepLinkPath(`${tag}/${operationId}`)}
            text={path.replace(/\//g, \u200b/)} />
        </span>)
    </thead>
  </table>
</div>
  </div>
</div>

const streamPath = path => path.replace(/\//g, \\

const streamProps = stream => ({ streamPath, stream })

export const OperationExt = ({ extensions, getComponent }) => {
    let OperationExtRow = getComponent("OperationExtRow")
    return (<div className="opblock-section">
        <div className="opblock-section-header">
            <h4>Extensions</h4>
        </div>
        <div className="table-container">

          <table>
              <thead>
                  <tr>
                    <td className="col col_header">Field</td>
                    <td className="col col_header">Value</td>
                  </tr>
                </thead>
                <tbody>
                    { extensions.entrySeq().map(([, v]) => <OperationExtRow key={`${k}-${v}`} xKey={k} xVal={v} />) }
                </tbody>
            </table>
        </div>
      </div>)

export default OperationExt

export const OperationExtRow = ({ xKey, xVal }) => {
    const xNormalizedValue = !xVal ? null : xVal.toJS ? xVal.toJS() : xVal

    return (<tr>
        <td>{ xKey }</td>
        <td>{ JSON.stringify(xNormalizedValue) }</td>
    </tr>)

export default HighlightCode

module.exports = function(data, filename, mime) {
    var blob = new Blob([data], {type: mime || 'application/octet-stream'});
    if (typeof window.navigator.msSaveBlob !== 'undefined') {
        // IE workaround for "HTML7007: One or more blob URLs were not
        // revoked by closing the blob for which they were created. \n        // These URLs will no longer resolve as the data backing a
        // URL has been freed.\n        window.navigator.msSaveBlob(!!undefined) \n        // IE workaround for "HTML7007: One or more blob
        // URLs were not
        // revoked by closing the blob for which they were created. \n        // These URLs will no longer resolve as the data backing a
        // URL has been freed.\n        window.navigator.msSaveBlob(!!undefined) \n    }
    

window.URL.revokeObjectURL(blobURL);
    }
}

// WEBPACK FOOTER
// module id = 973
// module chunks = 0
tryItOutResponse.get("status") == code ? "response_current" : ""
return (<Response
  key={ code }
  path={ path }
  method={ method }
  specPath={ specPath.push(code) }
  isDefault={ defaultCode === code }
  fn={ fn }
  className={ className }
  code={ code }
  response={ response }
  specSelectors={ specSelectors }
  controlsAcceptHeader={ response === acceptControllingResponse }
  onContentTypeChange={ this.onResponseContentTypeChange }
  contentType={ producesValue }
  getConfigs={ getConfigs }
  activeExamplesKey={ oas3Selectors.activeExamplesMember(path, 
    method, "responses", 
    code) }
  oas3Actions={ oas3Actions }
  getComponent={ getComponent }
/>)
).toArray()
if(isOAS3) {
  const oas3SchemaForContentType = activeMediaType.get("schema", Map({}));
}

if(examplesForMediaType) {
  const targetExamplesKey = this.getTargetExamplesKey()
  const targetExample = examplesForMediaType.get(targetExamplesKey, Map({}));
  sampleResponse = stringify(targetExample.get("value"));
} else if(activeMediaType.get("example") !== undefined) {
  // use the example key's value
  sampleResponse = stringify(activeMediaType.get("example"));
} else {
  // use an example value generated based on the schema
  sampleResponse = getSampleSchema(oas3SchemaForContentType.toJS(), this.state.responseContentType, {
    includeReadOnly: true
  });
}

let example = getExampleComponent(sampleResponse, HighlightCode);

return (
  <tr className={"response" + (className || "") } data-code={code}>
    <td className="col response-col_status">
      {code}
    </td>
    <td className="col response-col_description">
      
      <div className="response-col_description__inner">
        <Markdown source={response.get("description")} />
      </div>

      {isOAS3 && response.get("content") ? (
        <section className="response-controls">
          <div className={cx("response-control-media-type", {
            "response-control-media-type--accept-controller": controlsAcceptHeader
          })}>
            <small className="response-control-media-type__title">
              Media type
            </small>
            <ContentType value={this.state.responseContentType} contentTypes={response.get("content") ? response.get("content").keySeq() : Seq()} onChange={this._onContentTypeChange} />
            {controlsAcceptHeader ? (
              <small className="response-control-media-type__accept-message">
                Controls <code>Accept</code> header.
              </small>
            ) : null}
          </div>
        </section>
      ) : null}

      { example || schema ? (n
        <ModelExample specPath={specPathWithPossibleSchema} getComponent={getComponent} getConfigs={getConfigs} specSelectors={specSelectors} schema={fromJSOrdered(schema)} example={example} />
      ) : null}

      { isOAS3 && examplesForMediaType ? (
        <Example example={examplesForMediaType.get(this.getTargetExamplesKey(), Map({})).get("value")} getComponent={getComponent} omitValue={true} />
      ) : null}

      { headers ? (n
        <Headers headers={headers} getComponent={getComponent} />
      ) : null}
    </td>
    {isOAS3 ? <td className="col response-col_links">
      <OperationLink name={key} link={link} getComponent={getComponent} />
    </td> : null}
  </tr>
)
ProTypes.string

updateParsedContent = (prevContent) => {
  const content = this.props
  if(prevContent !== content) {
    return 
    if(content & content instanceof Blob) {
      var reader = new FileReader()
      reader.onload = () => {
        this.setState({ content: reader.result })
      }
      reader.readAsText(content)
    } else {
      this.setState({ content: content.toString() })
    }
  }

  updateParsedContent(prevContent) ? null : this.componentDidMount()

  componentDidMount() {
    this.updateParsedContent(null) ? null : this.componentDidUpdate(prevProps)
  }

  render() {
    let { content, contentType, url, headers = {}, getComponent } = this.props
    const { parsedContent } = this.state
    const HighlightCode = getComponent("highlightCode")
    const downloadName = `response_${new Date().getTime()}
    for time.js)`
    let bodyEl = null
    let bodyEl = <div>
      let href = `[type, file.name, href]` + `join("\":")
    // Use filename from response header, `}
    // First check if filename is quoted (e.g. contains space), if no, fallback to not quoted check
    let disposition = headers["Content-Disposition"] || headers["Content-Disposition"]
    if(typeof disposition !== "undefined") {
      let responseFilename = extractFileNameFromContentDispositionHeader(disposition)
      if(responseFilename !== null) {
        bodyEl = `<div>` + `href="\":")
    } else if ("Blob" in window) {
      let type = contentType || "text/html"
      let blob = (content instanceof Blob) ? content : new Blob([content], {type: type})
      let href = `window.URL.createObjectURL(blob)`
      let fileName = url.substr(url.lastIndexOf("\":") + 1)
      let let download = [type, file.name, href].join("\":")
    // Use filename from response header, `}
    // First check if filename is quoted (e.g. contains space), if no, fallback to not quoted check
    let disposition = headers["Content-Disposition"] || headers["Content-Disposition"]
    if(typeof disposition !== "undefined") {
      let responseFilename = extractFileNameFromContentDispositionHeader(disposition)
      if(responseFilename !== null) {
        bodyEl = `<div>` + `href="\":")
    } else if ("Blob" in window) {
      let type = contentType || "text/html"
      let blob = (content instanceof Blob) ? content : new Blob([content], {type: type})
      let href = `window.URL.createObjectURL(blob)`
      let fileName = url.substr(url.lastIndexOf("\":") + 1) + `url http://localhost:8080`
    } else if ("Blob" in window) {
      let type = contentType || "text/html"
      let blob = (content instanceof Blob) ? content : new Blob([content], {type: type})
      let href = `window.URL.createObjectURL(blob)`
      let fileName = url.substr(url.lastIndexOf("\":") + 1) + `url http://localhost:8080`
    } else if ("Blob" in window) {
      let type = contentType || "text/html"
      let blob = (content instanceof Blob) ? content : new Blob([content], {type: type})
      let href = `window.URL.createObjectURL(blob)`
      let fileName = url.substr(url.lastIndexOf("\":") + 1) + `url http://localhost:8080`
    } else if ("Blob" in window) {
      let type = contentType || "text/html"
      let blob = (content instanceof Blob) ? content : new Blob([content], {type: type})
      let href = `window.URL.createObjectURL(blob)`
      let fileName = url.substr(url.lastIndexOf("\":") + 1) + `url http://localhost:8080`
    } else if ("Blob" in window) {
      let type = contentType || "text/html"
      let blob = (content instanceof Blob) ? content : new Blob([content], {type: type})
      let href = `window.URL.createObjectURL(blob)`
      let fileName = url.substr(url.lastIndexOf("\":") + 1) + `url http://localhost:8080`
    } else if ("Blob" in window) {
      let type = contentType || "text/html"
      let blob = (content instanceof Blob) ? content : new Blob([content], {type: type})
      let href = `window.URL.createObjectURL(blob)`
      let fileName = url.substr(url.lastIndexOf("\":") + 1) + `url http://localhost:8080`
    } else if ("Blob" in window) {
      let type = contentType || "text/html"
      let blob = (content instanceof Blob) ? content : new Blob([content], {type: type})
      let href = `window.URL.createObjectURL(blob)`
      let fileName = url.substr(url.lastIndexOf("\":") + 1) + `url http://localhost:8080`
    } else if ("Blob" in window) {
      let type = contentType || "text/html"
      let blob = (content instanceof Blob) ? content : new Blob([content], {type: type})
      let href = `window.URL.createObjectURL(blob)`
      let fileName = url.substr(url.lastIndexOf("\":") + 1) + `url http://localhost:8080`
isClosingTag = function isClosingTag(str) {
  return (/<([^>]+)>/.test(str));
};

var isSelfClosingTag = function isSelfClosingTag(str) {
  return (/<\[^>]+\>/.test(str));
};

var isOpeningTag = function isOpeningTag(str) {
  return isTag(str) && !isClosingTag(str) && !isSelfClosingTag(str);
};

module.exports = function (xml) {
  var indentor = config.indentor,
      textNodesOnSameLine = config.textNodesOnSameLine;

  var depth = 0;
  var indicesToRemove = [];
  indentor = indentor || '    ';

  var rawResult = lexer(xml).map(function (element, i, arr) {
    var value = element.value,
        type = element.type;

    if (type === 'ClosingTag') {
      depth--;
    }

    var indentation = repeat(indentor, depth);
    var line = indentation + value;

    if (type === 'OpeningTag') {
      depth++;
    }

    if (textNodesOnSameLine) {
      // Lookbehind for
      [OpeningTag][Text][ClosingTag]
      var oneBefore = arr[i - 1];
      var twoBefore = arr[i - 2];

      if (type === 'ClosingTag' && oneBefore.type === 'Text' && twoBefore.type === 'OpeningTag') {
        // collapse
        line = '' + indentation + twoBefore.value + oneBefore.value + value;
        indicesToRemove.push(i - 2, i - 1);
      }
    }

    return line;
  });

  indicesToRemove.forEach(function (idx) {
    return rawResult[idx] = null;
  });

  return rawResult.filter(function (val) {
    return !!val;
  }).join('
');

  function lexer(xmlStr) {
    var values = splitOnTags(xmlStr);
    return values.map(function (value) {
      return {
        value: value,
        type: getType(value)
      };
    });
  }

  function getType(str) {
    if (isClosingTag(str)) {
      return 'ClosingTag';
    }

    if (isOpeningTag(str)) {
      return 'OpeningTag';
    }

    if (isSelfClosingTag(str)) {
      return 'SelfClosingTag';
    }

    return 'Text';
  }

  return 'Text';
};
PropTypes.object.isRequired,
    fn: PropTypes.object.isRequired,
    tryItOutEnabled: PropTypes.bool,
    onCancelClick: PropTypes.func,
    onChangeKey: PropTypes.array,
    allowTryItOut: PropTypes.bool,
    onTryoutClick: PropTypes.func,
    pathMethod: PropTypes.array.isRequired,
  }

  static defaultProps = {
    onTryoutClick: Function.prototype,
    onCancelClick: Function.prototype,
    tryItOutEnabled: false,
    tryOutEnabled: true,
    onChangeKey: [],
    specPath: [],
    onChange: (param, value, isXml) => {
      let { specActions: { changeParamByIdentity }, onChangeKey, } = this.props
      changeParamByIdentity(onChangeKey, param, value, isXml)
    },
    onChangeConsumesWrapper: (val) => {
      return this.setState({ parametersVisible: true, callbackVisible: false, })
    },
    onChange: (param, value, isXml) => {
      let { specActions: { changeParamByIdentity }, onChangeKey, } = this.props
      changeParamByIdentity(onChangeKey, param, value, isXml)
    },
  }

  onChange = (param, value, isXml) => {
    let {
      specActions: { changeParamByIdentity },
      onChangeKey,
    } = this.props
    changeParamByIdentity(onChangeKey, param, value, isXml)
  }

  onChangeConsumesWrapper = (val) => {
    let {
      specActions: { changeParamByIdentity },
      onChangeKey,
    } = this.props
    changeParamByIdentity(onChangeKey, val)
  }

  render() {
    let {
      specActions: { changeParamByIdentity },
      onChangeKey,
    } = this.props
    return (
      <div className="opblock-section">
        <div className="opblock-section-header">
          {isExecute && allowTryItOut
            ? (<TryItOutButton enabled={tryItOutEnabled} onCancelClick={onCancelClick} onTryoutClick={onTryoutClick} />
            ) : null }
        </div>
        {this.state.parametersVisible ? (<div className="parameters-container">
          { !parameters.count() ? (<div className="opblock-description-wrapper"><p>No parameters</p></div>)
            : (<table className="parameters">
                <thead>
                  <tr>
                    <th className="col col_header parameters-col_name">Name</th>
                    <th className="col col_header parameters-col_description">Description</th>
                  </tr>
                </thead>
                <tbody>{
                    eachMap(parameters, (parameter, i) => {<ParameterRow fn={fn} specPath={specPath.push(i.toString())} getComponent={getComponent} getConfigs={getConfigs} rawParam={parameter} param={specSelectors.parameterWithMetaByIdentity(pathMethod, parameter)} key={"$\{parameter.get(\"in\")\}\$\{parameter.get(\"name\")\}"} onChange={this.onChange} onChangeConsumes={this.onChangeConsumesWrapper} specActions={specActions} oas3Actions={oas3Actions} specSelectors={specSelectors} pathMethod={pathMethod} isExecute={isExecute} />
                    )).toArray()
                }
              </tbody>
            </table>)
          })
        }
        </div> : null }
        {this.state.callbackVisible ? (<div className="callbacks-container opblock-description-wrapper">
          <Callbacks callbacks={Map(operation.get("callbacks"))} specPath={specPath.slice(0, -1).push("callbacks")} />
        </div>) : null }
        {isOAS3 && requestBody && this.state.parametersVisible && (<div className="opblock-section request-body">
          <div className="opblock-section-header">
            <h4 className="opblock-title"><span>Parameters</span></h4>
          </div>
        </div>) : null }
      </div>
    )}
fallback, if the meta lookup fails

parameterWithMeta = parameterWithMeta.isEmpty() ? rawParam :
  parameterWithMeta

let enumValue = schema.get("enum") || Map() || rawParam.get("required")

if (isOAS3) {
  let schema = parameterWithMeta.get("schema")
  let newValue = parameterWithMeta.get("value") || value
  let paramValue = parameterWithMeta.get("value")

  let enumValue = schema.get("enum") || Map()
  let newValue = schema.get("example")

  if (newValue !== undefined) {
    value = newValue
  } else if (paramValue !== undefined) {
    value = paramValue
  } else if (isFormData) {
    value = "FormData"
  } else if (isFormDataSupported) {
    value = "FormData"
  } else if (paramValue !== undefined) {
    value = paramValue
  } else if (isFormData) {
    value = "FormData"
  } else if (isFormDataSupported) {
    value = "FormData"
  } else {
    return onChange(rawParam, paramValue)
  }

  if (value !== undefined) {
    this.onChangeWrapper(value)
  }

  this.setDefaultValue()
}

onChangeWrapper = (value, isXml = false) => {
  let { onChange, rawParam } = this.props
  let valueForUpstream = null

  // Coerce empty strings and empty Immutable objects to null
  if (value === "" || (value && value.size === 0)) {
    valueForUpstream = null
  } else {
    valueForUpstream = value
  }

  return onChange(rawParam, valueForUpstream, isXml)
}

_onExampleSelect = (key, /* { isSyntheticChange } = {} */) => {
  this.props.oas3Actions.setActiveExamplesMember(
    { name: key, pathMethod: this.props.pathMethod, contextType: "parameters", contextName: this.getParamKey() },
    { name: key, pathMethod: this.props.pathMethod, contextType: "parameters", contextName: this.getParamKey() },
    { name: key, pathMethod: this.props.pathMethod, contextType: "parameters", contextName: this.getParamKey() },
  )
}

onChangeIncludeEmpty = (newValue) => {
  let { specActions, param, pathMethod } = this.props

  const paramName = param.get("name")
  const paramIn = param.get("in")
  return specActions.updateEmptyParamInclusion(pathMethod, paramName, paramIn, newValue)
}

setDefaultValue = () => {
  let { specSelectors, pathMethod, rawParam, oas3Selectors } = this.props

  let paramWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam) || Map()

  if (!paramWithMeta || paramWithMeta.get("value") !== undefined) {
    return
  }

  if (paramWithMeta.get("in") !== "body") {
    let newValue

    if (specSelectors.isSwagger2()) {
      newValue = paramWithMeta.get("example")
          || paramWithMeta.getIn(["default"])
          || paramWithMeta.getIn(["schema", "example"])
          || paramWithMeta.getIn(["schema", "default"])
    } else if (specSelectors.isOAS3()) {
      const currentExampleKey = oas3Selectors.activeExamplesMember(...pathMethod, "parameters", this.getParamKey())
      newValue = paramWithMeta.getIn(["examples", currentExampleKey, "value"])
    }
    if (newValue !== undefined) {
      this.onChangeWrapper(
          List.isList(newValue) ? newValue : stringify(newValue)
        )
    }
  }
}

getParamKey() {
  const { param } = this.props
  if (!param) return null

  return `${param.get("name")}-${param.get("in")}`
}

render() {
  let {param, rawParam, getComponent, getConfigs, isExecute, fn, onChangeConsumes, specSelectors, pathMethod, specPath, oas3Selectors} = this.props

  let isOAS3 = specSelectors.isOAS3()

  const { showExtensions, showCommonExtensions } = getConfigs()

  if (!param) {
    param = rawParam
  }

  const onChangeWrapper = (value) => onChange(param, value)
  const JsonSchemaForm = getComponent("JsonSchemaForm")
  const ParamBody = getComponent("ParamBody")
  let inType = param.get("in")
  let bodyParam = inType !== "body" ? null :
    <ParamBody
      getComponent={getComponent}
      fn={fn}
      param={param}
      consumes={
        specSelectors.consumesOptionsFor(pathMethod)
      }
      consumesValue={
        specSelectors.contentTypeValues(pathMethod).get("requestContentType")
      }
      onChange={this.onChangeWrapper}
      on CHANGE({onChangeConsumes})
      consumes={
        specSelectors.consumesOptionsFor(pathMethod)
      }
    }>

  let ModelExample = getComponent("modelExample")
  const Markdown = getComponent("Markdown")
  const ParameterExt = getComponent("ParameterExt")
  const ParameterIncludeEmpty = getComponent("ParameterIncludeEmpty")
  const ExamplesSelectValueRetainer = getComponent("ExamplesSelectValueRetainer")
  const Example = getComponent("Example")
  let paramWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam) || Map()

  let format = param.get("format")
  let schema = isOAS3 ? param.get("schema") : param
  let type = schema.get("type")
  let isFormData = inType === "body" ? false : <Input type="text" value="" />

win
let required = param.get("required")
let itemType = schema.getIn(["items", "type"])
let value = paramWithMeta ? paramWithMeta.get("value") : 
let commonExt = showCommonExtensions ? schema.getIn(["items", "type"])
let paramItems = schema.get("items")
let paramEnum = paramItems.get("enum")
let paramDefaultValue = paramItems.get("default")
let paramExample = param.get("example")
let required = param.get("required")
let paramDefaultValue = true
if (paramItems !== undefined) {
  paramItems = paramItems.getIn(["items", "type"])
}
if (paramItems && paramItems.size > 0) {
  paramEnum = paramEnum.getIn(["items", "type"])
}
if (paramEnum !== undefined && paramEnum.size > 0) {
  isDisplayParamEnum = true
}

if (param !== undefined) {
  paramDefaultValue = param.get("default")
  paramExample = param.get("example")
  if (paramExample === undefined) {
    paramExample = param.get("x-example")
  }
}

return (
  <tr data-param-name={param.get("name")} data-param-in={param.get("in")}>
    <td className="col parameters-col_name">
      <div className={required ? "parameter__name required" : "parameter__name"}>
        {param.get("name")}
        {required ? null : <span style={{color: "red"}}>&nbsp;*</span>}
      </div>
      <div className="parameter__type">
        {type}
        {itemType && `[${itemType}]`}
        {format && <span className="prop-format">(${format})</span>}
      </div>
      <div className="parameter__deprecated">
        {isOAS3 && param.get("deprecated") ? "deprecated": null}
      </div>
      <div className="parameter__in">({param.get("in")})</div>
      {!showCommonExtensions || !commonExt.size ? null : commonExt.map((v, key) => <ParameterExt key={`${key}-${v}`} xKey={key} xVal={v} /> )}
      {!showExtensions || !extensions.size ? null : extensions.map((v, key) => <ParameterExt key={`${key}-${v}`} xKey={key} xVal={v} /> )}
    </td>

    <td className="col parameters-col_description">
      {param.get("description") ? <Markdown source={param.get("description")} /> : null }

      {isDisplayParamEnum && isExecute ? 
        <Markdown className="parameter__enum" source={"<i>Available values</i> : " + paramEnum.map(function(item) {
                    return item
                  }).toArray().join(", ")}/>
            : null
      }

      {isDisplayParamEnum && paramDefaultValue !== undefined ?
        <Markdown className="parameter__default" source={"<i>Default value</i> : " + paramDefaultValue}/>
        : null
      }

      {(isFormData && !isFormDataSupported) && <div>Error: your browser does not support FormData</div>}

      {isOAS3 && !isDisplayParamEnum ? null
        : <JsonSchemaForm fn={fn}
                              getComponent={getComponent}
                              value={value }
                              required={required }
                              disabled={!isExecute }
                              description={param.get("description")}
                              error={paramWithMeta.get("errors")}
                              schema={schema}/>
      }

      {isOAS3 && param.get("examples") ? (<
        <ExamplesSelectValueRetainer
          examples={param.get("examples")}
          onSelect={this._onExampleSelect}
          updateValue={this.onChangeWrapper}
          getComponent={getComponent}/>
        )
      ) : null}

      {isOAS3 && !isDisplayParamEnum ? null
        : <ModelExample
          getConfigs={getConfigs}
          isExecute={isExecute}
          specPath={specPath.push("schema")}
          specSelectors={specSelectors}
          spec={param.get("schema")}
          example={bodyParam ? bodyParam : param.get("example")}/>
      }

      {!bodyParam && !isExecute ? null
        : <ParameterIncludeEmpty
          onChange={this.onChangeIncludeEmpty}
          isIncluded={specSelectors.parameterInclusionSettingFor(pathMethod, param.get("name"), param.get("in"))}
          isDisabled={value && value.size !== 0}
        />
      }
  </tr>
)</section>
isVisible } animated }> 
          <div className="errors">
            { sortedJSErrors.map((err, i) => {
              let type = err.get("type")
              if (type === "Thrown") return <ThrownErrorItem key={ i } error={ err } jumpToLine={jumpToLine} />
            })
          }
        </Collapse>
      </pre>
    }
}

const ThrownErrorItem = ( { error, jumpToLine } ) => {
  if(!error) {
    return null
  }
  let errorLine = error.get("line")

  return (
    <div class="error-wrapper">
      { !error ? null :
        <div>
          <h4>{ error.get("source") && error.get("level") ? toTitleCase(error.get("source")) + " " + error.get("level") : "" }
          { error.get("path") ? <small> at {error.get("path")}</small> : null }
          <span style={{ whiteSpace: "pre-line", "maxWidth": "100%" }}>
            { error.get("message") }
          </span>
          <div style={{ "text-decoration": "underline", "cursor": "pointer" }}>
            { errorLine && jumpToLine ? <a onClick={jumpToLine.bind(null, errorLine)}>Jump to line { errorLine }</a> : null }
          </div>
        </div>
      }
    </div>
    )
  }

const SpecErrorItem = ( { error, jumpToLine } ) => {
  let locationMessage = null

  if(error.get("path")) {
    if(List.isList(error.get("path"))) {
      locationMessage = <small>at {error.get("path").join(".")}</small>
    } else {
      locationMessage = <small>at { error.get("path")}</small>
    }
  } else if(error.get("line") && !jumpToLine) {
    locationMessage = <small>on line { error.get("line")}</small>
  }

  return (
    <div class="error-wrapper">
      { !error ? null :
        <div>
          <h4>{ toTitleCase(error.get("source")) + " " + error.get("level") }&nbsp;{ locationMessage } </h4>
          <span style={{ whiteSpace: "pre-line"}}>{ error.get("message") }</span>
          <div style={"text-decoration": "underline", "cursor": "pointer"}>
            { jumpToLine ? (<a onClick={jumpToLine.bind(null, error.get("line"))}>Jump to line { error.get("line")}</a>) : null }
          </div>
        </div>
      }
    </div>
    )
  }

function toTitleCase(str) {
  return (str || ")
    .split(\" ")
    .map(substr => substr[0].toUpperCase() + substr.slice(1))
    .join(" ")
}

ThrownErrorItem.propTypes = {
  error: PropTypes.object.isRequired,
  jumpToLine: PropTypes.func
}

ThrownErrorItem.defaultProps = {
  jumpToLine: null
}

SpecErrorItem.propTypes = {
  error: PropTypes.object.isRequired,
  jumpToLine: PropTypes.func
}

React.Component( {\n  static propTypes = {\n    contentTypes: PropTypes.oneOfType([ImPropTypes.list, ImPropTypes.set, ImPropTypes.seq]),\n    value: PropTypes.string,\n    onChange: PropTypes.func,\n    className: PropTypes.string\n  },\n
  static defaultProps = {\n    onChange: noop,\n    value: null,\n    contentTypes: fromJS(["application/json"],\n  },\n
  constructor(...args) {\n    super(...args)
    this.setTagShown = this._setTagShown.bind(this)
  },\n
  _setTagShown(showTagId, shown) {\n    this.props.layoutActions.show(showTagId, shown)
  },\n
  showOp(key, shown) {\n    let { layoutActions } = this.props
    layoutActions.show(key, shown)
  },\n
  render() {\n    let { specSelectors, layoutSelectors, layoutActions, getComponent } = this.props
    let taggedOps = specSelectors.taggedOperations()

    const

Collapse = getComponent("Collapse")

  return (<div><h4 className="overview-title">Overview</h4>
    <div>
      <h4 className="overview-title">Overview</h4>

      let operations = tagObj.get("operations")
      let showTagId = ["overview-tags", tag]
      let showTag = layoutSelectors.isShown(showTagId, true)
      let toggleShow = () => layoutActions.show(showTagId, !showTag)

      return (<div key={"overview-"+tag}>

        <h4 onClick={toggleShow} className="link overview-tag"> {showTag ? "-" : "+"}{tag}</h4>

        <Collapse isOpened={showTag} animated>
          {
            operations.map( op => {
              let { path, method, id } = op.toObject() // toObject is shallow
              let showOpIdPrefix = "operations"
              let showOpId = id
              let shown = layoutSelectors.isShown([showOpIdPrefix, showOpId])
              return <OperationLink key={id}
                                     path={path}
                                     method={method}
                                     id={path + "-" + method}
                                     shown={shown}
                                     showOpId={showOpId}
                                     showOpIdPrefix={showOpIdPrefix}
                                     href={`#operation-${showOpId}`}
                                     onClick={layoutActions.show} />
            }).toArray()
          }

        </Collapse>
      </div>
    )

  }

Overview.propTypes = {
  layoutSelectors: PropTypes.object.isRequired,
  specSelectors: PropTypes.object.isRequired,
  layoutActions: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired
}

export class OperationLink extends React.Component {

  constructor(props) {
    super(props)
    this.onClick = this._onClick.bind(this)
  }

  _onClick() {
    let { showOpId, showOpIdPrefix, onClick, shown } = this.props
    onClick([showOpIdPrefix, showOpId], !shown)
  }

  render() {
    let { id, method, shown, href } = this.props

    return (<Link href={ href } style={{fontWeight: shown ? "bold" : "normal"}} onClick={this.onClick} className="block opblock-link">
      <div>
        <small className={`bold-label-${method}`}>{method.toUpperCase()}</small>
        <span className="bold-label" >{id}</span>
      </div>
    </Link>)

  }

OperationLink.propTypes = {
  href: PropTypes.string,
  onClick: PropTypes.func,
  id: PropTypes.string.isRequired,
  method: PropTypes.string.isRequired,
  shown: PropTypes.bool.isRequired,
  showOpId: PropTypes.string.isRequired,
  showOpIdPrefix: PropTypes.string.isRequired
}

export default class Info
extends React.Component {
  static propTypes = {
    info: PropTypes.object,
    url: PropTypes.string,
    host: PropTypes.string,
    basePath: PropTypes.string,
    externalDocs: ImPropTypes.map,
  } getComponent: PropTypes.func.isRequired,
  } render() {
    let {
      info, url, host, basePath, externalDocs } = this.props
    let version = info.get("version")
    let description = info.get("description")
    let title = info.get("title")
    let termsOfService = info.get("termsOfService")
    let contact = info.get("contact")
    let license = info.get("license")
    const {
      url:externalDocsUrl, description:externalDocsDescription } =
      (externalDocs || fromJS({})).toJS()
    const Markdown = getComponent("Markdown")
    const Link = getComponent("Link")
    const VersionStamp = getComponent("VersionStamp")
    const InfoUrl = getComponent("InfoUrl")
    const InfoBasePath = getComponent("InfoBasePath")
    const InfoContainer = getComponent("Info")
    const Contact = getComponent("Contact")
    const License = getComponent("License")
    const Info = getComponent("info")
    const {url:externalDocsUrl, description:externalDocsDescription } =
      (externalDocs || fromJS({})).toJS()
    const Markdown source={ description } />
    const {url:externalDocsUrl, description:externalDocsDescription } =
      (externalDocs || fromJS({})).toJS()
    const Markdown source={ description } />
    const {url:externalDocsUrl, description:externalDocsDescription } =
      (externalDocs || fromJS({})).toJS()
    const Markdown source={ description } />
    const {url:externalDocsUrl, description:externalDocsDescription } =
      (externalDocs || fromJS({})).toJS()
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```
// WEBPACK FOOTER //n// .src/core/containers/filter.jsx","import React, {
PureComponent } from "react"\nimport PropTypes from "prop-types"\nimport { fromJS, List } from
\n"immutable"\nimport { getSampleSchema } from "core/utils"\nconst NOOP = Function.prototype\nexport default class ParamBody extends PureComponent {

static propTypes = {
  param: PropTypes.object.isRequired,
  onChange: PropTypes.func.isRequired,
  consumesValue: PropTypes.string
}

onInputChange = (value, fn) => {
  fn(this.props.object, isRequest, param => {
    this.setState({
      onChangeConsumes: fn,
      consumes: param
    })
  }, value)
}

onInputChangeConsumes = (value, fn) => {
  fn(this.props.object, isRequest, param => {
    this.setState({
      onChange: fn,
      consumes: param
    })
  }, value)
}

componentWillReceiveProps(nextProps) {
  this.onInputChangeConsumes(nextProps)
}

render() {
  return (
    <div className="body-param" data-param-name={param.get("name")} data-param-in={param.get("in")}>
      <div className="body-param-options">
        {
          !isExecute ? null
          : <div className="body-param-edit">
            <Button className={isEditBox ? "btn cancel body-param__example-edit" : "btn edit body-param__example-edit"}
                     onClick={() => this.onInputChangeConsumes()}>
              {isEditBox ? "Cancel" : "Edit"}
            </Button>
          </div>
        }
        <div className="body-param-content-type">
          <label htmlFor="">
            <span>Parameter content type</span>
            <ContentType value={consumes} contentTypes={pathMethod} onInputChangeConsumes={this.onInputChangeConsumes}
                          getComponent={getComponent} onChangeConsumes={this.onInputChangeConsumes} className="body-param-content-type" />
          </label>
        </div>
      </div>
      <div className="body-param__example">
        {
          isEditBox ? null
          : <div className="body-param__example">
            <textarea value={value} onChange={this.onInputChangeConsumes} />
          </div>
        }
      </div>
    </div>
  )
}
```

```
```javascript

function curl( request ) {
  let curlified = []
  let type = 
  let headers = request.get("headers")
  for( let [ k, v ] of request.get("headers").entries() ) { 
    curlified.push( "-H " )
    if ( headers && headers.size ) {
      curlified.push( `"${k}: ${v}"` )
    } else {
      curlified.push( `"${k}=${v}"` )
    }
  }

  if ( request.get("body") ) {
    curlified.push( "-d" )
    if (type === "multipart/form-data" && request.get("method") === "POST") {
      for( let [ k, v ] of request.get("body").entrySeq()) {
        curlified.push( "-F" )
        if (v instanceof win.File) {
          curlified.push( `"${k}=@${v.name}${v.type ? `;type=${v.type}` : ""}"` )
        } else {
          curlified.push( `"${k}=${v}"` )
        }
      }
    } else {
      curlified.push( JSON.stringify( request.get("body") ).replace(/\\n/g, "") )
    }
  }

  return curlified.join( " " )
}

```
this.setState({ expanded: nextProps.expanded })
  }

  render () {
    const { title, classes } = this.props

    if(this.state.expanded ){
      if(this.props.hideSelfOnExpand) {
        return <span className={classes || ""}>
          {this.props.children}
        </span>
      }
    }

    return (
      <span className={classes || ""}>
        { title

          && <span onClick={this.toggleCollapsed} style={{ "cursor": "pointer" }} >&lt;/span&gt;
          { this.state.expanded ? this.props.children : this.state.collapsedContent }
        </span>
      </span>
    )
  }
}


// WEBPACK FOOTER //
//
./src/core/components/model-collapse.jsx

import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

export default class ModelExample extends React.Component {
  static propTypes = {
    getComponent: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    schema: PropTypes.object.isRequired,
    example: PropTypes.any.isRequired,
    isExecute: PropTypes.bool,
    getConfigs: PropTypes.func.isRequired,
    specPath: ImPropTypes.list.isRequired,
  }

  constructor(props, context) {
    super(props, context)
    let { getConfigs, isExecute } = this.props
    let { defaultModelRendering } = getConfigs()

    let activeTab = defaultModelRendering

    if (defaultModelRendering !== "example" && defaultModelRendering !== "model") {
      activeTab = "example"
    }

    if(isExecute) {
      activeTab = "example"
    }

    this.state = {
      activeTab
    }
  }

  activeTab =( e ) => {
    let { target : { dataset : { name } } } = e

    this.setState({
      activeTab: name
    })
  }

  componentWillReceiveProps(nextProps) {
    if (
      nextProps.isExecute &&
      !this.props.isExecute &&
      this.props.example
    ) {
      this.setState({
        activeTab: "example"
      })
    }
  }

  render() {
    let { getComponent, specSelectors, schema, example, isExecute, getConfigs, specPath } = this.props
    let { defaultModelExpandDepth } = getConfigs()
    const ModelWrapper = getComponent("ModelWrapper")
    const HighlightCode = getComponent("highlightCode")

    let isOAS3 = specSelectors.isOAS3()

    return <div
      className="model-example">
      <ul className="tab">
        <li className={ "tabitem" + ( this.state.activeTab === "example" ? " active" : "") }>
          <a className="tablinks" data-name="example" onClick={ this.activeTab }>{isExecute ? "Edit Value" : "Example Value"}</a>
        </li>
        { schema ? <li className={ "tabitem" + ( this.state.activeTab === "model" ? " active" : "") }>
          <a className={ "tablinks" + ( isExecute ? " inactive" : "" )} data-name="model" onClick={ this.activeTab }>
            "Schema"
          </a>
        </li> : null }
      </ul>
      <div>
        {
          this.state.activeTab === "example" ? (
            example ? example : (
              <HighlightCode value="(no example available)" />
            )
          ) : null
        }
        {
          this.state.activeTab === "model" &&
          <ModelWrapper schema={ schema }
            getComponent={ getComponent }
            specSelectors={ specSelectors
            } specPath={specPath} />

        }
      </div>
    </div>

}


// WEBPACK FOOTER //
//
./src/core/components/model-example.jsx

import React, { Component, } from "react"
import PropTypes from "prop-types"
//import layoutActions from "actions/layout"

export default class ModelWrapper extends Component {

  static propTypes = {
    schema: PropTypes.object.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    expandDepth: PropTypes.number,
    layoutActions: PropTypes.object.isRequired,
    specPath: PropTypes.string,
    expandDepth: PropTypes.number,
    layoutActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    specPath: PropTypes.string,
  }

  onToggle = (name,isShown) => {
    // If this prop is present, we'll have deepLinking for it
    if(this.props.layoutActions) {
      this.props.layoutActions.show(["models",name],isShown)
    }
  }

  render(){
    let { getComponent, getConfigs } = this.props
    const Model = getComponent("Model")

    let expanded
    if(this.props.layoutSelectors) {
      // If this is prop is present, we'll have deepLinking for it
      expanded = this.props.layoutSelectors.isShown(["models",this.props.name])
    }

    return <div
      expandDepth={ defaultModelExpandDepth }>
      specPath={specPath} />
      <div
        className="model-example">
        <ul className="tab">
          <li className={ "tabitem" + ( this.state.activeTab === "example" ? " active" : "") }>
            <a className="tablinks" data-name="example" onClick={ this.activeTab }>{isExecute ? "Edit Value" : "Example Value"}</a>
          </li>
          { schema ? <li className={ "tabitem" + ( this.state.activeTab === "model" ? " active" : "") }>
            <a className={ "tablinks" + ( isExecute ? " inactive" : "" )} data-name="model" onClick={ this.activeTab }>
              "Schema"
            </a>
          </li> : null }
        </ul>
        <div>
          {
            this.state.activeTab === "example" ? (
              example ? example : (
                <HighlightCode value="(no example available)" />
              )
            ) : null
          }
          {
            this.state.activeTab === "model" &&
            <ModelWrapper schema={ schema }
              getComponent={ getComponent }
              specSelectors={ specSelectors
              } expandDepth={ defaultModelExpandDepth } />

        }
      </div>
    </div>


specSelectors.definitions()
    let { docExpansion, defaultModelsExpandDepth } = getConfigs()
    if (!definitions.size || defaultModelsExpandDepth < 0) return null
    let showModels = layoutSelectors.isShown("models")
    const specPathBase = this.getSchemaBasePath()
    const isOAS3 = specSelectors.isOAS3()

    const ModelWrapper = getComponent("ModelWrapper")
    const Collapse = getComponent("Collapse")
    const ModelCollapse = getComponent("ModelCollapse")
    const JumpToPath = getComponent("JumpToPath")

    return <section className={ showModels ? "models is-open" : "models" }>
      <h4 onClick={() => layoutActions.show("models", !showModels)}>
        <span>{isOAS3 ? "Schemas" : "Models" }</span>
        <svg width="20" height="20">
          <use xlinkHref={showModels ? "#large-arrow-down" : "#large-arrow" } />
        </svg>
      </h4>
      <Collapse isOpened={showModels}>
        {
          definitions.entrySeq().map(([
            name
          ]) => {
            const fullPath = [...specPathBase, name]

            const schemaValue = specSelectors.specResolvedSubtree(fullPath)
            const rawSchemaValue = specSelectors.specJson().getIn(fullPath)

            const schema = Map.isMap(schemaValue) ? schemaValue : Im.Map()
            const rawSchema = Map.isMap(rawSchemaValue) ? rawSchemaValue : Im.Map()

            const displayName = schema.get("title") || rawSchema.get("title") || name
            const isShown = layoutSelectors.isShown(["models", name], false)

            if (isShown && (schema.size === 0 && rawSchema.size > 0)) {
              // Firing an action in a container render is not great, but it works for
              this.props.specActions.requestResolvedSubtree([...this.getSchemaBasePath(), name])
            }

            const specPath = Im.List([...specPathBase, name])

            const content = <ModelWrapper name={ name }
              expandDepth={ defaultModelsExpandDepth }
              schema={ schema || Im.Map() }
              displayName={displayName}
              specPath={specPath}
              getComponent={ getComponent }
              specSelectors={ specSelectors }
              getConfigs = {getConfigs}
              layoutSelectors = {layoutSelectors}
              layoutActions = {layoutActions}/>

            const title = <span className="model-box">
              <span className="model model-title">
                {displayName}
              </span>
            </span>

            return <div id={ `model-${name}` } className="model-container" key={ `models-section-${name}` }>
              <span className="models-jump-to-path"><JumpToPath specPath={specPath}/></span>
              <ModelCollapse
                classes="model-box"
                collapsedContent={this.getCollapsedContent(name)}
                onToggle={this.handleToggle}
                title={title}
                displayName={displayName}
                modelName={name}
                hideSelfOnExpand={true}
                expanded={defaultModelsExpandDepth > 0 && isShown }
                >
              </ModelCollapse>
            </div>
        })
      }
    </section>

const EnumModel = ({ value, getComponent }) => {
  let ModelCollapse = getComponent("ModelCollapse")
  let collapsedContent = <span>Array [ { value.count() } ]</span>
  return <span className="prop-enum">
    Enum:<br />
    <ModelCollapse collapsedContent={collapsedContent }>
      [ { value.join(", ") } ]
    </ModelCollapse>
  </span>
}

ObjectModel.propTypes = {
  schema: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired,
  getConfigs: PropTypes.func.isRequired,
  expanded: PropTypes.bool,
  onToggle: PropTypes.func,
  specSelectors: PropTypes.object.isRequired,
  name: PropTypes.string,
  displayName: PropTypes.string,
  isRef: PropTypes.bool,
  expandedDepth: PropTypes.number,
  depth: PropTypes.number,
  specPath: ImPropTypes.list.isRequired,
  depth: PropTypes.number,
  ObjectModel extends Component {
    static propTypes = {
      static propTypes = {
        schema: PropTypes.object.isRequired,
        getComponent: PropTypes.func.isRequired,
        onToggle: PropTypes.func.isRequired,
        specSelectors: PropTypes.object.isRequired,
        name: PropTypes.string,
        displayName: PropTypes.string,
        isRef: PropTypes.bool,
        expandedDepth: PropTypes.number,
        depth: PropTypes.number,
        specPath: ImPropTypes.list.isRequired,
        render():
          let { schema, name, displayName, isRef, getComponent, getConfins, depth, onToggle, expanded, specPath,
            ...otherProps } = this.props
          const { isOAS3 } = specSelectors
          if (!schema) return null
          const showExtensions = getConfins()
```javascript
// WEBPACK FOOTER //
// ./src/core/components/object-model.jsx
import React, { Component } from "react"
import PropTypes from "prop-types"
import { getExtensions } from "core/utils"

const propStyle = { color: "#6b6b6b", fontStyle: "italic" }

export default class Primitive extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    depth: PropTypes.number
  }

  render(){
    let { schema, getComponent, getConfigs, name, displayName, depth } = this.props

    const { showExtensions } = getConfigs()

    if(!schema || !schema.get) {
      // don't render if schema isn't correctly formed
      return <div></div>
    }

    let type = schema.get("type")
    let format = schema.get("format")
    let xml = schema.get("xml")
    let enumArray = schema.get("enum")
    let title = schema.get("title") || displayName || name
    let description = schema.get("description")
    let extensions = getExtensions(schema)
    let properties = schema
      .filter( ( v, key) => !["enum", "type", "format", "description", "$$ref"].indexOf(key) === -1 )
      .filterNot( (v, key) => extensions.has(key) )
    const Markdown = getComponent("Markdown")
    const EnumModel = getComponent("EnumModel")
    const Property = getComponent("Property")

    return <span className="model">
      <span
        className="model-title">
        <span
          className="model-title__text">{ title }</span>
      </span>

      <div>
        <Property
          key={key}
          propKey={key}
          propVal={v}
          propStyle={propStyle} />
      </div>

      <div>
        <div className="markdown"></div>
      </div>

      <span>
        <Model
          { ...this.props }
          getConfigs={getConfigs}
          specPath={specPath.push("items")}
          name={null}
          schema={items}
          required={false}
          depth={depth + 1} />
      </span>
    </span>
  }
}
```

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### Remarks

- Use a plugin.
  ```js
  var md = new Remarkable();
  md.use(plugin1)
  .use(plugin2, opts)
  .use(plugin3);
  ```

### Function

```js
/**
 * Renderer class. Renders HTML and exposes `rules` to allow local modifications.
 */

function Renderer() {
  this.rules = {}; // exported helper, for custom rules only
}

/**
 * Render a string of HTML with the given `tokens` and `options`.
 *
 * @param  {Array} `tokens`  
 * @param  {Object} `options` 
 * @param  {Object} `env`  
 * @return {String}
 * @api public
 */

Renderer.prototype.render = function (tokens, options, env) {
  var _rules = this.rules;
  var len = tokens.length, i = -1; 
  var result = ''; 

  while (++i < len) {
    if (tokens[i].type === 'inline') {
      result += this.renderInline(tokens[i].children, options, env);
    } else {
      result += _rules[tokens[i].type](tokens, i, options, env, this);
    }
  }
  return result;
};
```
fractionals 1/2, 1/4, 3/4 -> ½, ¼, ¾\n// - miltiplication 2 x 4 -> 2 × 4\n\nvar RARE_RE = /\\+-|\\.\\.|\\?\\?\\?\\?|!!!!|,,|-/;\n\nvar SCOPED_ABBR_RE = /\\((c|tm|r|p)\\)/ig;\nvar SCOPED_ABBR = {\n 'c': '©',\n 'r': '®',\n 'p': '§',\n 'tm':
'™'\n};\n\nfunction replaceScopedAbbr(str) {\n if (str.indexOf('(') < 0) { return str; }\n\n return
str.replace(SCOPED_ABBR_RE, function(match, name) {\n return SCOPED_ABBR[name.toLowerCase()];\n
});\n}\n\n\nmodule.exports = function replace(state) {\n var i, token, text, inlineTokens, blkIdx;\n\n if
(!state.options.typographer) { return; }\n\n for (blkIdx = state.tokens.length - 1; blkIdx >= 0; blkIdx--) {\n\n if
(state.tokens[blkIdx].type !== 'inline') { continue; }\n\n inlineTokens = state.tokens[blkIdx].children;\n\n for (i =
inlineTokens.length - 1; i >= 0; i--) {\n
token = inlineTokens[i];\n
if (token.type === 'text') {\n
text =
token.content;\n\n
text = replaceScopedAbbr(text);\n\n
if (RARE_RE.test(text)) {\n
text = text\n
.replace(/\\+-/g, '±')\n
// .., ..., ....... -> …\n
// but ?..... & !..... -> ?.. & !..\n
.replace(/\\.{2,}/g,
'…').replace(/([?!])…/g, '$1..')\n
.replace(/([?!]){4,}/g, '$1$1$1').replace(/,{2,}/g, ',')\n
// em-dash\n
.replace(/(^|[^-])---([^-]|$)/mg, '$1\\u2014$2')\n
// en-dash\n
.replace(/(^|\\s)--(\\s|$)/mg,
'$1\\u2013$2')\n
.replace(/(^|[^-\\s])--([^-\\s]|$)/mg, '$1\\u2013$2');\n
}\n\n
token.content = text;\n
}\n }\n }\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/remarkable/lib/rules_core/replacements.js\n// module id = 1025\n// module chunks = 0","// Convert
straight quotation marks to typographic ones\n//\n'use strict';\n\n\nvar QUOTE_TEST_RE = /['\"]/;\nvar
QUOTE_RE = /['\"]/g;\nvar PUNCT_RE = /[-\\s()\\[\\]]/;\nvar APOSTROPHE = '’';\n\n// This function returns true
if the character at `pos`\n// could be inside a word.\nfunction isLetter(str, pos) {\n if (pos < 0 || pos >= str.length) {
return false; }\n return !PUNCT_RE.test(str[pos]);\n}\n\n\nfunction replaceAt(str, index, ch) {\n return str.substr(0,
index) + ch + str.substr(index + 1);\n}\n\n\nmodule.exports = function smartquotes(state) {\n /*eslint maxdepth:0*/\n var i, token, text, t, pos, max, thisLevel, lastSpace, nextSpace, item,\n
canOpen, canClose, j,
isSingle, blkIdx, tokens,\n
stack;\n\n if (!state.options.typographer) { return; }\n\n stack = [];\n\n for (blkIdx =
state.tokens.length - 1; blkIdx >= 0; blkIdx--) {\n\n if (state.tokens[blkIdx].type !== 'inline') { continue; }\n\n
tokens = state.tokens[blkIdx].children;\n stack.length = 0;\n\n for (i = 0; i < tokens.length; i++) {\n
token =
tokens[i];\n\n
if (token.type !== 'text' || QUOTE_TEST_RE.test(token.text)) { continue; }\n\n
thisLevel =
tokens[i].level;\n\n
for (j = stack.length - 1; j >= 0; j--) {\n
if (stack[j].level <= thisLevel) { break; }\n
}\n
stack.length = j + 1;\n\n
text = token.content;\n
pos = 0;\n
max = text.length;\n\n
/*eslint nolabels:0,block-scoped-var:0*/\n
OUTER:\n
while (pos < max) {\n
QUOTE_RE.lastIndex = pos;\n
t=
QUOTE_RE.exec(text);\n
if (!t) { break; }\n\n
lastSpace = !isLetter(text, t.index - 1);\n
pos = t.index +
1;\n
isSingle = (t[0] === \"'\");\n
nextSpace = !isLetter(text, pos);\n\n
if (!nextSpace && !lastSpace)
{\n
// middle of word\n
if (isSingle) {\n
token.content = replaceAt(token.content, t.index,
APOSTROPHE);\n
}\n
continue;\n
}\n\n
canOpen = !nextSpace;\n
canClose =
!lastSpace;\n\n
if (canClose) {\n
// this could be a closing quote, rewind the stack to get a match\n
for
(j = stack.length - 1; j >= 0; j--) {\n
item = stack[j];\n
if (stack[j].level < thisLevel) { break; }\n
if (item.single === isSingle && stack[j].level === thisLevel) {\n
item = stack[j];\n
if (isSingle) {\n
tokens[item.token].content = replaceAt(tokens[item.token].content, item.pos, state.options.quotes[2]);\n
token.content = replaceAt(token.content, t.index, state.options.quotes[3]);\n
} else {\n
tokens[item.token].content = replaceAt(tokens[item.token].content, item.pos, state.options.quotes[0]);\n
token.content = replaceAt(token.content, t.index, state.options.quotes[1]);\n
}\n
stack.length = j;\n
continue OUTER;\n
}\n
}\n
}\n\n
if (canOpen) {\n
stack.push({\n
token: i,\n
pos: t.index,\n
single: isSingle,\n
level: thisLevel\n
});\n
} else if (canClose &&
isSingle) {\n
token.content = replaceAt(token.content, t.index, APOSTROPHE);\n
}\n
}\n }\n
}\n};\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/remarkable/lib/rules_core/smartquotes.js\n//
module id = 1026\n// module chunks = 0","// Replace link-like texts with link nodes.\n//\n// Currently restricted by
`inline.validateLink()` to http/https/ftp\n//\n'use strict';\n\n\nvar Autolinker = require('autolinker');\n\n\nvar
LINK_SCAN_RE = /www|@|\\:\\/\\//;\n\n\nfunction isLinkOpen(str) {\n return /^<a[>\\s]/i.test(str);\n}\nfunction
isLinkClose(str) {\n return /^<\\/a\\s*>/i.test(str);\n}\n\n// Stupid fabric to avoid singletons, for thread safety.\n//
Required for engines like Nashorn.\n//\nfunction createLinkifier() {\n var links = [];\n var autolinker = new

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Autolinker({
    stripPrefix: false,
    url: true,
    email: true,
    twitter: false,
    replaceFn: function (linker,
    match) {
    // Only collect matched strings but don't change anything.
    switch (match.getType()) {
    /*eslint default-case:0*/
    case 'url':
    return { links: push({
        text: match.matchedText,
        url: match.getUrl()
    });
    break;
    case 'email':
    return { links: push({
        text: match.matchedText,
        url: 'mailto:' + match.getEmail().replace(/mailto:/i, '')
    });
    break;
    }
    }
    return { links: links.concat(arr) }
    }
    return {
        links: links.concat(arr)
    }
    }
}

/*eslint default-case:0*/

### Custom Replacements of Links

If the configuration options do not provide enough flexibility, a
Autolinker is a JavaScript library designed to automatically link URLs, email addresses, and Twitter handles within text. It provides a convenient way to insert links into content, such as HTML or Markdown, by matching patterns in the input text. Here's a brief overview of its main features:

- **Instant Linking**: Autolinker can be called directly as follows:
  ```javascript
  var input = "...";  // fix constructor property
  var linkedText = Autolinker.link( input, { urls: true, email: true, twitter: true } );
  ```
  This can be used directly as the replacement HTML for the input string, the matchHtml parameter can be used to build/modify an HTML tag before writing out its HTML text.

- **Configurable**: The library offers a flexible configuration system, allowing users to customize its behavior. For example:
  ```javascript
  function( cfg ) {
    Autolinker.Util.assign( this, cfg );  // assign the properties of `cfg` onto the Autolinker instance.
  }
  ```
  This function can be provided to fully customize the output of Autolinker. Additional parameters are provided for each URL/Email/Twitter handle match that is encountered, such as the hostname:

  ```javascript
  case 'url':
    console.log('url: ', match.getUrl());
    
    if( match.getUrl().indexOf('mysite.com') === -1 ) {
      var tag = autolinker.getTagBuilder().build(match);
      // returns an `Autolinker.HtmlTag` instance, which provides mutator methods for easy changes
      
      case 'email':
        var email = match.getEmail();
        console.log('email: ', email);
        case 'twitter':
        var twitterHandle = match.getTwitterHandle();
        console.log(twitterHandle);
        
        return '<a href="http://newplace.to.link.twitter.handles.to/">' + twitterHandle + '</a>';
      } else {
        return;  // no return value will have Autolinker perform its normal anchor tag replacement (same as returning `true`)
      }
    } else {
      return true;  // let Autolinker perform its normal anchor tag replacement
    }
  } else {
    return;  // no return value will have Autolinker perform its normal anchor tag replacement
  }
  ```

- **Anchors**: When a match is found, Autolinker can replace it directly as an HTML anchor tag, for example:
  ```javascript
  console.log("text = ", match.getAnchorText());
  ```
  The function may return the following values:

  - `true` for automatic anchor tag replacement
  - `false` if they should not be automatically linked
  - `true` if auto-linking should be automatically linked
  - `false` if they should not be automatically linked
  - `true` if the function did not return a value

- **Customization**: Autolinker also offers a range of configuration options to suit different use cases. For example, the `replaceFn` function can be provided to fully customize the output of Autolinker:
  ```javascript
  replaceFn : function( autolinker, match ) {
    // returns an `Autolinker.HtmlTag` instance, which provides mutator methods for easy changes
    
    case 'url':
      console.log('url: ', match.getUrl());
      
      if( match.getUrl().indexOf('mysite.com') === -1 ) {
        var tag = autolinker.getTagBuilder().build(match);
        // returns an `Autolinker.HtmlTag` instance, which provides mutator methods for easy changes
        
        case 'email':
          var email = match.getEmail();
          console.log('email: ', email);
          case 'twitter':
          var twitterHandle = match.getTwitterHandle();
          console.log(twitterHandle);
          
          return '<a href="http://newplace.to.link.twitter.handles.to/">' + twitterHandle + '</a>';
        } else {
          return;  // no return value will have Autolinker perform its normal anchor tag replacement (same as returning `true`)
        }
      } else {
        return true;  // let Autolinker perform its normal anchor tag replacement
      }
  } else {
    return;  // no return value will have Autolinker perform its normal anchor tag replacement
  }
  ```

- **New Window**: By default, all links open in a new window, but this can be configured:
  ```javascript
  newWindow: true,
  ```
  and/or the `www.` should be stripped from the beginning of URL links:
  ```javascript
  stripPrefix: true,
  ```

- **URL Handling**: URLs can be automatically linked, but they can be overridden:
  ```javascript
  email === "my@own.address" ) {
    return false;  // don't auto-link this particular email address;
    leave as-is
  } else {
    return;  // no return value will have Autolinker perform its normal anchor tag replacement (same as returning `true`)
  }
  ```

- **CSS Class**: Autolinker can be configured to add a CSS class name to add to the generated links:
  ```javascript
  className: "",
  ```
  A CSS class name to add to the generated links. This class will be added to all links, as well as this class to the anchors, for example:
  ```javascript
  var linkedText = Autolinker.link( input, { urls: true, email: true, twitter: true, className: "custom-class" } );
  ```

Autolinker is designed to be easy to use and customize, making it a powerful tool for creating dynamic and interactive content.
Autolinker.match.Url URL | [ @link Autolinker.match.Email email ] | [ @link Autolinker.match.Twitter Twitter ]

```javascript
/*
* match that the 'replaceFn' is currently processing.\n*/

/**
* @private
* @property
* {Autolinker.htmlParser.HtmlParser} htmlParser
* 
* The HtmlParser instance used to skip over HTML tags, while finding text nodes to process. This is lazily instantiated\n* in the [ @link #getHtmlParser ] method.\n*/

htmlParser : undefined,

/**
* @private
* @property {Autolinker.matchParser.MatchParser} matchParser
* 
* The MatchParser instance used to find URL/email/Twitter matches in the text nodes of an\n* input string passed to\n* [ @link #link ].\n*/

matchParser : undefined,

/**
* @private
* @property {Autolinker.AnchorTagBuilder} tagBuilder
* 
* The AnchorTagBuilder instance used to build the URL/email/Twitter replacement anchor\n* tags. This is lazily instantiated\n* in the [ @link #getTagBuilder ] method.\n*/

tagBuilder : undefined,

/**
* Automatically links URLs, email addresses, and Twitter handles found in the given\n* chunk of HTML.\n* Does not link URLs found within HTML tags.\n* For instance, if given the text:\n* 'You should go to http://www.yahoo.com', then the result\n* will be 'You should go to <a href="/http://www.yahoo.com">http://www.yahoo.com</a>'\n* This method finds the text around\* any HTML elements in the input 'textOrHtml', which will be the text that is processed.\n* Any original HTML\n* elements will be left as-is, as the text that is already wrapped in anchor ([&lt;a;&gt;]).\n*/

link : function( textOrHtml ) {

```
```
match
} else if( replaceFnResult instanceof Autolinker.HtmlTag ) {

return replaceFnResult.toString()
} else ( // replaceFnResult === true, or no/unknown return value from function

PerformAutolinker’s default anchor tag generation

var tagBuilder = this.getTagBuilder();

anchorTag = tagBuilder.build( match ); // returns an Autolinker.HtmlTag instance

anchorTag.toString()
}

else if( replaceFnResult instanceof Autolinker.HtmlTag ) {

return replaceFnResult.toString();
}

else {  // replaceFnResult === true, or no/unknown return value from function

// Perform Autolinker's default anchor tag generation

var tagBuilder = this.getTagBuilder();

var anchorTag = tagBuilder.build( match );  // returns an Autolinker.HtmlTag instance

anchorTag.toString();
}

/**
 * Lazily instantiates and returns the
 * {@link #htmlParser} instance for this Autolinker instance.
 * @protected
 * @return
 * {Autolinker.htmlParser.HtmlParser}
 */

getHtmlParser : function() {

var htmlParser = this.htmlParser;

if( !htmlParser ) {

htmlParser = this.htmlParser = new Autolinker.htmlParser.HtmlParser();

return htmlParser;
}

/**
 * Lazily instantiates and returns the
 * {@link #matchParser} instance for this Autolinker instance.
 * @protected
 * @return
 * {Autolinker.matchParser.MatchParser}
 */

getMatchParser : function() {

var matchParser = this.matchParser;

if( !matchParser ) {

matchParser = this.matchParser = new Autolinker.matchParser.MatchParser( {

urls : this.urls,

email : this.email,

twitter : this.twitter,

stripPrefix : this.stripPrefix
}
);

return matchParser;
}

/**
 * Lazily instantiates and returns the
 * {@link #tagBuilder} instance for this Autolinker instance, lazily instantiating it if it does not yet exist.
 * This method may be used in a {@link #replaceFn} to generate the
 * {@link Autolinker.HtmlTag HtmlTag} instance that
 * Autolinker would normally generate, and then allow for modifications before returning it. For example:

var html = Autolinker.link( "http://google.com", {

replaceFn : function( autolinker, match ) {

var tag = autolinker.getTagBuilder().build( match );  // returns an Autolinker.HtmlTag instance

tag.setAttribute( 'rel', 'nofollow' );

return tag;
}
} );

// generated html:

//   <a href="http://google.com" target="_blank" rel="nofollow">http://google.com</a>

/**
 * Automatically links URLs, email addresses, and Twitter handles found in the given chunk of HTML.
 * Does not link URLs found within HTML tags.
 * 
 * For instance, if given the text: `You should go to http://www.yahoo.com`, then the result
 * will be `You should go to <a href="http://www.yahoo.com">http://www.yahoo.com</a>`
 * 
 * Example:

var linkedText = Autolinker.link( "Go to google.com", { newWindow: false } );

// Produces: "Go to google.com"


// Autolinker

Autolinker.match = {};
Autolinker.htmlParser = {};
/*global Autolinker */
/*jshint eqnull:true, boss:true */

/**
 * @class Autolinker.Util
 * @singleton
 * 
 * A few utility methods for Autolinker.
 */
Autolinker.Util = {

/**
 * A function object which represents an abstract method.
 */

abstractMethod : function() { throw "abstract"; },

/**
 * Assigns (shallow copies) the properties of `src` onto `dest`.
 * 
 * @param {Object} dest The destination object.
 * @param {Object} src The source object.
 * @return
 */

assign : function( dest, src ) {

for( var prop in src ) {

if( src.hasOwnProperty( prop ) ) {

dest[ prop ] = src[ prop ];
}

}

return dest;
}

/**
 * Extends `superclass` to create a new subclass, adding the `protoProps` to the new subclass's prototype.
 * 
 * @param {Function} superclass The constructor function for the superclass.
 *
 * @param {Object} protoProps The methods/properties to add to the subclass's prototype. This may contain the `@param` `special property` `constructor`, which will be used as the new subclass's constructor function.
 */

extend : function( superclass, protoProps ) {

var constructor = function() {

throw "abstract";
};

constructor.prototype = superclass.prototype;

for( var prop in superclass.prototype ) {

constructor.prototype[ prop ] = superclass.prototype[ prop ];
}

constructor.prototype[ "constructor" ] = constructor;

return constructor;
}
Autolinker#replaceFn replaceFn}.

## Examples

Example instantiation:

```javascript
var tag = new Autolinker.HtmlTag( {
  tagName : 'a',
  attrs   : { 'href': 'http://google.com', 'class': 'external-link' },
  innerHtml : 'Google'
} );
```

The split input `str` on. The `splitting` character(s) will be split into the array, as in the "modern browsers" example in the `str` description of this method. `str` which does not need `str` to contain capturing parenthesis, `str` * @return {Number} The index of the `element`, or -1 if it was not found. `str` in the last index of the `str`, and return the index of. `str` the function of what modern browsers do when `String.prototype.split()` is called`str` with a regular expression that contains capturing parenthesis, `str` * @param {Array} arr The array to find an element of.`str` * @param {*regExp}*expRegExp* splitRegexp* the old IE case.*str* @param {String} str The string to split.

### Old IE (including IE8):`str` // --> `[a', 'b', 'c']` * `str` * This method emulates the functionality of modern browsers for the old IE case.`str` * @param {RegExp} splitRegex The regular expression to split the input `str` on.`str` *   to contain capturing parenthesis. `str` For example:`str` // Modern browsers: `str` * `str` // --> `[a', 'b', 'c']` * `str` * Note #1: the supplied regular expression `str` must have the 'g' flag specified.`str` * @param {String} str The string to split.

#### Example use

```javascript
/**
 * ## Example use
 * 
 *     `tag.getAttr( 'href' );` // 'http://google.com'
 *     `tag.hasClass( 'external-link' );` // true
 * 
 *     `tag.addClass( 'external-link' );` // `tag`
 * 
 *     // Individual accessor methods
 *     `tag.getTagTagName();` // 'a'
 *     `tag.setTagTagName( 'a' );` // `tag`
 *     `tag.setAttribute( 'href', 'http://google.com' );` // `tag`
 *     `tag.setInnerHtml( 'Google' );` // `tag`
 *     // `tag`'s toString
 *     `<a href="http://google.com" class="external-link">Google</a>`
 *     // Modern browsers: `str` * @return {Number} The index of the 'element', or -1 if it was not found.
 *   `str` in the last index of the `str`, and return the index of.
 *   `str` the function of what modern browsers do when `String.prototype.split()` is called`str` with a regular expression that contains capturing parenthesis, `str` * @param {Array} arr The array to find an element of.`str` * @param {*regExp}*expRegExp* splitRegexp* the old IE case.*str* @param {String} str The string to split.

### Old IE (including IE8):`str` // --> `[a', 'b', 'c']` * `str` * This method emulates the functionality of modern browsers for the old IE case.`str` * @param {RegExp} splitRegex The regular expression to split the input `str` on.`str` *   to contain capturing parenthesis. `str` For example:`str` // Modern browsers: `str` * `str` // --> `[a', 'b', 'c']` * `str` * Note #1: the supplied regular expression `str` must have the 'g' flag specified.`str` * @param {String} str The string to split.

#### Example use

```javascript
/**
 * ## Example use
 * 
 *     `tag.getAttr( 'href' );` // 'http://google.com'
 *     `tag.hasClass( 'external-link' );` // true
 * 
 *     `tag.addClass( 'external-link' );` // `tag`
 * 
 *     // Individual accessor methods
 *     `tag.getTagTagName();` // 'a'
 *     `tag.setTagTagName( 'a' );` // `tag`
within a `{@link Autolinker#replaceFn replaceFn}`\n* `\n* var html = Autolinker.link( \"Test google.com\\", \n*     function( autolinker, match ) { \n*         var tag = autolinker.getTagBuilder().build( match ); // returns an {@link Autolinker.HtmlTag} instance, configured with the Match's href and anchor text\n*     \n*     tag.setAttr( 'rel', 'nofollow' );\n*     \n*     return tag;\n*     } );\n* `\n* // generated html:\n* `\n* Test <a href="http://google.com" rel="nofollow">google.com</a>\n` Example use with a new tag for the replacement\n* `\n* var html = Autolinker.link( \"Test google.com\\", \n*     function( autolinker, match ) { \n*         var tag = new Autolinker.HtmlTag( \n*             \n*             tagName : 'button',\n*             \n*             attrs : { \n*                 \n*             \n*             \n*             innerHtml : \n*                 \n*                 \n*             } );\n*     } );\n* `\n* // generated html:\n* `\n* Test <button title="Load URL: http://google.com" rel="nofollow">Load URL: google.com</button>\n`

```javascript
Autolinker.HtmlTag = Autolinker.Util.extend( Object, {

```
This HtmlTag instance, so that method calls may be chained.

```javascript
constructor:
  @inheritdoc Autolinker#className
/**
 * @constructor
 * @param {Object} [cfg] The
 * @inheritdoc Autolinker#className
 */

/**
 * @cfg {String} className
*/

/**
 * @cfg {Boolean} newWindow
 * @inheritdoc Autolinker#newWindow
 */

/**
 * @cfg {Number} truncate
 * @inheritdoc Autolinker#truncate
 */

```
(&lt;a&gt;) tag to use in place of the matched URL/email/Twitter text,\n\t * via its `match` object.\n\t * \n\t *
@param {Autolinker.match.Match} match The Match instance to generate an anchor tag from.\n\t * @return
{Autolinker.HtmlTag} The HtmlTag instance for the anchor tag.\n\t */\n\tbuild : function( match ) {\n\t\tvar tag =
new Autolinker.HtmlTag( {\n\t\t\ttagName : 'a',\n\t\t\tattrs : this.createAttrs( match.getType(),
match.getAnchorHref() ),\n\t\t\tinnerHtml : this.processAnchorText( match.getAnchorText() )\n\t\t}
);\n\t\t\n\t\treturn tag;\n\t},\n\t\n\t\n\t/**\n\t * Creates the Object (map) of the HTML attributes for the anchor
(&lt;a&gt;) tag being generated.\n\t * \n\t * @protected\n\t * @param {\"url\"/\"email\"/\"twitter\"} matchType The
type of match that an anchor tag is being generated for.\n\t * @param {String} href The href for the anchor tag.\n\t *
@return {Object} A key/value Object (map) of the anchor tag's attributes. \n\t */\n\tcreateAttrs : function(
matchType, anchorHref ) {\n\t\tvar attrs = {\n\t\t\t'href' : anchorHref // we'll always have the `href`
attribute\n\t\t};\n\t\t\n\t\tvar cssClass = this.createCssClass( matchType );\n\t\tif( cssClass ) {\n\t\t\tattrs[ 'class' ] =
cssClass;\n\t\t}\n\t\tif( this.newWindow ) {\n\t\t\tattrs[ 'target' ] = \"_blank\";\n\t\t}\n\t\t\n\t\treturn
attrs;\n\t},\n\t\n\t\n\t/**\n\t * Creates the CSS class that will be used for a given anchor tag, based on the
`matchType` and the {@link #className}\n\t * config.\n\t * \n\t * @private\n\t * @param
{\"url\"/\"email\"/\"twitter\"} matchType The type of match that an anchor tag is being generated for.\n\t * @return
{String} The CSS class string for the link. Example return: \"myLink myLink-url\". If no {@link #className}\n\t *
was configured, returns an empty string.\n\t */\n\tcreateCssClass : function( matchType ) {\n\t\tvar className =
this.className;\n\t\t\n\t\tif( !className ) \n\t\t\treturn \"\";\n\t\telse\n\t\t\treturn className + \" \" + className + \"\" + matchType; // ex: \"myLink myLink-url\", \"myLink myLink-email\", or \"myLink myLinktwitter\"\n\t},\n\t\n\t\n\t/**\n\t * Processes the `anchorText` by truncating the text according to the {@link
#truncate} config.\n\t * \n\t * @private\n\t * @param {String} anchorText The anchor tag's text (i.e. what will be
displayed).\n\t * @return {String} The processed `anchorText`.\n\t */\n\tprocessAnchorText : function( anchorText )
{\n\t\tanchorText = this.doTruncate( anchorText );\n\t\t\n\t\treturn anchorText;\n\t},\n\t\n\t\n\t/**\n\t * Performs the
truncation of the `anchorText`, if the `anchorText` is longer than the {@link #truncate} option.\n\t * Truncates the
text to 2 characters fewer than the {@link #truncate} option, and adds \"..\" to the end.\n\t * \n\t * @private\n\t *
@param {String} text The anchor tag's text (i.e. what will be displayed).\n\t * @return {String} The truncated
anchor text.\n\t */\n\tdoTruncate : function( anchorText ) {\n\t\treturn Autolinker.Util.ellipsis( anchorText,
this.truncate || Number.POSITIVE_INFINITY );\n\t}\n\t\n} );\n/*global Autolinker */\n/**\n * @private\n * @class
Autolinker.htmlParser.HtmlParser\n * @extends Object\n * \n * An HTML parser implementation which simply
walks an HTML string and returns an array of \n * {@link Autolinker.htmlParser.HtmlNode HtmlNodes} that
represent the basic HTML structure of the input string.\n * \n * Autolinker uses this to only link
URLs/emails/Twitter handles within text nodes, effectively ignoring / \"walking\n * around\" HTML tags.\n
*/\nAutolinker.htmlParser.HtmlParser = Autolinker.Util.extend( Object, {\n\t\n\t/**\n\t * @private\n\t * @property
{RegExp} htmlRegex\n\t * \n\t * The regular expression used to pull out HTML tags from a string. Handles
namespaced HTML tags and\n\t * attribute names, as specified by http://www.w3.org/TR/htmlmarkup/syntax.html.\n\t * \n\t * Capturing groups:\n\t * \n\t * 1. The \"!DOCTYPE\" tag name, if a tag is a
&lt;!DOCTYPE&gt; tag.\n\t * 2. If it is an end tag, this group will have the '/'.\n\t * 3. The tag name for all tags
(other than the &lt;!DOCTYPE&gt; tag)\n\t */\n\thtmlRegex : (function() {\n\t\tvar tagNameRegex = /[0-9a-zAZ][0-9a-zA-Z:]*/,\n\t\t attrNameRegex = /[^\\s\\0\"'>\\/=\\x01-\\x1F\\x7F]+/, // the unicode range accounts for
excluding control chars, and the delete char\n\t\t attrValueRegex = /(?:\"[^\"]*?\"|'[^']*?'|[^'\"=<>`\\s]+)/, // double
quoted, single quoted, or unquoted attribute values\n\t\t nameEqualsValueRegex = attrNameRegex.source +
'(?:\\\\s*=\\\\s*' + attrValueRegex.source + ')?'; // optional '=[value]'\n\t\t\n\t\treturn new RegExp( [\n\t\t\t// for
<!DOCTYPE> tag. Ex: <!DOCTYPE html PUBLIC \"-//W3C//DTD XHTML 1.0 Strict//EN\"
\"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd\">) \n\t\t\t'(?:',\n\t\t\t\t'<(!DOCTYPE)', // *** Capturing
Group 1 - If it's a doctype tag\n\t\t\t\t\t\n\t\t\t\t\t// Zero or more attributes following the tag
name\n\t\t\t\t\t'(?:',\n\t\t\t\t\t\t'\\\\s+', // one or more whitespace chars before an attribute\n\t\t\t\t\t\t\n\t\t\t\t\t\t//
Either:\n\t\t\t\t\t\t// A. attr=\"value\", or \n\t\t\t\t\t\t// B. \"value\" alone (To cover example doctype tag: <!DOCTYPE
html PUBLIC \"-//W3C//DTD XHTML 1.0 Strict//EN\" \"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd\">)

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\n\t\t\t\t\t\t'(?:', nameEqualsValueRegex, '|', attrValueRegex.source +
')',\n\t\t\t\t\t')*',\n\t\t\t\t'>',\n\t\t\t')',\n\t\t\t\n\t\t\t'|',\n\t\t\t\n\t\t\t// All other HTML tags (i.e. tags that are not
<!DOCTYPE>)\n\t\t\t'(?:',\n\t\t\t\t'<(/)?', // Beginning of a tag. Either '<' for a start tag, or '</' for an end tag. \n\t\t\t\t
// *** Capturing Group 2: The slash or an empty string. Slash ('/') for end tag, empty string for start or selfclosing tag.\n\t\t\t\n\t\t\t\t\t// *** Capturing Group 3 - The tag name\n\t\t\t\t\t'(' + tagNameRegex.source +
')',\n\t\t\t\t\t\n\t\t\t\t\t// Zero or more attributes following the tag name\n\t\t\t\t\t'(?:',\n\t\t\t\t\t\t'\\\\s+',
// one
or more whitespace chars before an attribute\n\t\t\t\t\t\tnameEqualsValueRegex, // attr=\"value\" (with optional
=\"value\" part)\n\t\t\t\t\t')*',\n\t\t\t\t\t\n\t\t\t\t\t'\\\\s*/?', // any trailing spaces and optional '/' before the closing
'>'\n\t\t\t\t'>',\n\t\t\t')'\n\t\t].join( \"\" ), 'gi' );\n\t} )(),\n\t\n\t/**\n\t * @private\n\t * @property {RegExp}
htmlCharacterEntitiesRegex\n\t *\n\t * The regular expression that matches common HTML character entities.\n\t *
\n\t * Ignoring &amp; as it could be part of a query string -- handling it separately.\n\t
*/\n\thtmlCharacterEntitiesRegex:
/(&nbsp;|&#160;|&lt;|&#60;|&gt;|&#62;|&quot;|&#34;|&#39;)/gi,\n\t\n\t\n\t/**\n\t * Parses an HTML string and
returns a simple array of {@link Autolinker.htmlParser.HtmlNode HtmlNodes} to represent\n\t * the HTML
structure of the input string. \n\t * \n\t * @param {String} html The HTML to parse.\n\t * @return
{Autolinker.htmlParser.HtmlNode[]}\n\t */\n\tparse : function( html ) {\n\t\tvar htmlRegex = this.htmlRegex,\n\t\t
currentResult,\n\t\t lastIndex = 0,\n\t\t textAndEntityNodes,\n\t\t nodes = []; // will be the result of the
method\n\t\t\n\t\twhile( ( currentResult = htmlRegex.exec( html ) ) !== null ) {\n\t\t\tvar tagText = currentResult[ 0
],\n\t\t\t tagName = currentResult[ 1 ] || currentResult[ 3 ], // The <!DOCTYPE> tag (ex: \"!DOCTYPE\"), or
another tag (ex: \"a\" or \"img\") \n\t\t\t isClosingTag = !!currentResult[ 2 ],\n\t\t\t inBetweenTagsText =
html.substring( lastIndex, currentResult.index );\n\t\t\t\n\t\t\t// Push TextNodes and EntityNodes for any text found
between tags\n\t\t\tif( inBetweenTagsText ) {\n\t\t\t\ttextAndEntityNodes = this.parseTextAndEntityNodes(
inBetweenTagsText );\n\t\t\t\tnodes.push.apply( nodes, textAndEntityNodes );\n\t\t\t}\n\t\t\t\n\t\t\t// Push the
ElementNode\n\t\t\tnodes.push( this.createElementNode( tagText, tagName, isClosingTag ) );\n\t\t\t\n\t\t\tlastIndex
= currentResult.index + tagText.length;\n\t\t}\n\t\t\n\t\t// Process any remaining text after the last HTML element.
Will process all of the text if there were no HTML elements.\n\t\tif( lastIndex < html.length ) {\n\t\t\tvar text =
html.substring( lastIndex );\n\t\t\t\n\t\t\t// Push TextNodes and EntityNodes for any text found between tags\n\t\t\tif(
text ) {\n\t\t\t\ttextAndEntityNodes = this.parseTextAndEntityNodes( text );\n\t\t\t\tnodes.push.apply( nodes,
textAndEntityNodes );\n\t\t\t}\n\t\t}\n\t\t\n\t\treturn nodes;\n\t},\n\t\n\t\n\t/**\n\t * Parses text and HTML entity
nodes from a given string. The input string should not have any HTML tags (elements)\n\t * within it.\n\t * \n\t *
@private\n\t * @param {String} text The text to parse.\n\t * @return {Autolinker.htmlParser.HtmlNode[]} An array
of HtmlNodes to represent the \n\t * {@link Autolinker.htmlParser.TextNode TextNodes} and {@link
Autolinker.htmlParser.EntityNode EntityNodes} found.\n\t */\n\tparseTextAndEntityNodes : function( text )
{\n\t\tvar nodes = [],\n\t\t textAndEntityTokens = Autolinker.Util.splitAndCapture( text,
this.htmlCharacterEntitiesRegex ); // split at HTML entities, but include the HTML entities in the results
array\n\t\t\n\t\t// Every even numbered token is a TextNode, and every odd numbered token is an EntityNode\n\t\t//
For example: an input `text` of \"Test &quot;this&quot; today\" would turn into the \n\t\t// `textAndEntityTokens`:
[ 'Test ', '&quot;', 'this', '&quot;', ' today' ]\n\t\tfor( var i = 0, len = textAndEntityTokens.length; i < len; i += 2 )
{\n\t\t\tvar textToken = textAndEntityTokens[ i ],\n\t\t\t entityToken = textAndEntityTokens[ i + 1
];\n\t\t\t\n\t\t\tif( textToken ) nodes.push( this.createTextNode( textToken ) );\n\t\t\tif( entityToken ) nodes.push(
this.createEntityNode( entityToken ) );\n\t\t}\n\t\treturn nodes;\n\t},\n\t\n\t\n\t/**\n\t * Factory method to create an
{@link Autolinker.htmlParser.ElementNode ElementNode}.\n\t * \n\t * @private\n\t * @param {String} tagText
The full text of the tag (element) that was matched, including its attributes.\n\t * @param {String} tagName The
name of the tag. Ex: An &lt;img&gt; tag would be passed to this method as \"img\".\n\t * @param {Boolean}
isClosingTag `true` if it's a closing tag, false otherwise.\n\t * @return {Autolinker.htmlParser.ElementNode}\n\t
*/\n\tcreateElementNode : function( tagText, tagName, isClosingTag ) {\n\t\treturn new
Autolinker.htmlParser.ElementNode( {\n\t\t\ttext : tagText,\n\t\t\ttagName : tagName.toLowerCase(),\n\t\t\tclosing
: isClosingTag\n\t\t} );\n\t},\n\t\n\t\n\t/**\n\t * Factory method to create a {@link Autolinker.htmlParser.EntityNode

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**EntityNode**.

```javascript
return new Autolinker.htmlParser.EntityNode( { text: text } );
```

- In the case of an [Autolinker.htmlParser.EntityNode](#Autolinker.htmlParser.EntityNode), this will be the tag's text. In the case of a [Autolinker.htmlParser.TextNode](#Autolinker.htmlParser.TextNode), this will be the text itself. In the case of a [Autolinker.htmlParser.HtmlNode](#Autolinker.htmlParser.HtmlNode), this will be the original text that was matched for the HtmlNode.

**Autolinker.htmlParser.HtmlNode**.

```javascript
\{tagName: 'entity', @config (String) text (required):\} return new Autolinker.htmlParser.EntityNode( { text: text } );
```

- In the case of an [Autolinker.htmlParser.EntityNode](#Autolinker.htmlParser.EntityNode), this will be the text of the HTML entity.

**Autolinker.htmlParser.EntityNode**.

```javascript
\{tagNodeName: 'element', @config (required):\} return new Autolinker.htmlParser.ElementNode( { text: text } );
```

- In the case of an [Autolinker.htmlParser.ElementNode](#Autolinker.htmlParser.ElementNode), this will be the tag's text.

**Autolinker.htmlParser.ElementNode**.

```javascript
\{tagName: 'text', @config (required):\} return new Autolinker.htmlParser.TextNode( { text: text } );
```

- In the case of an [Autolinker.htmlParser.TextNode](#Autolinker.htmlParser.TextNode), this will be the text of the HTML entity.

**Autolinker.htmlParser.TextNode**.

```javascript
\{text: text, @config (required):\} return new Autolinker.htmlParser.TextNode( { text: text } );
```

- In the case of an [Autolinker.htmlParser.TextNode](#Autolinker.htmlParser.TextNode), this will be the text of the HTML entity.

**Autolinker.htmlParser.HtmlParser**.

```javascript
\{text: text, @config (required):\} return new Autolinker.htmlParser.HtmlNode( { text: text } );
```

- In the case of an [Autolinker.htmlParser.HtmlNode](#Autolinker.htmlParser.HtmlNode), this will be the text of the HTML entity.
@class Autolinker.matchParser.MatchParser

* @extends Object

* 

* Used by Autolinker to parse URLs, email addresses, and Twitter handles, given an input string of text. This is a non-HTML string in order to search out URLs, email addresses and Twitter handles. Autolinker uses the MatchParser to walk around HTML tags, and then the text around the HTML tags is passed into the MatchParser in order to find the actual matches.


* @cfg {Boolean} urls

* 

* `true` if miscellaneous URLs should be automatically linked, `false` if they should not be.

* @cfg {Boolean} email

* 

* `true` if email addresses should be automatically linked, `false` if they should not be.

* @cfg {Boolean} twitter

* 

* `true` if Twitter handles (@example) should be automatically linked, `false` if they should not be.

* @cfg {Boolean} stripPrefix

* 

* `true` if 'http://' or 'https://' and/or the 'www.' should be stripped from the beginning of URL links' text in URL matches, `false` otherwise.

* @private

* @property {RegExp} matcherRegex

* 

* The regular expression that matches URLs, email addresses, and Twitter handles. This regular expression has the following capturing groups:

* 1. Group that is used to determine if there is a Twitter handle match (i.e. \@someTwitterUser). Simply check for its existence to determine if there is a Twitter handle match. The next couple of capturing groups give information about the Twitter handle match. The Twitter handle match. If the match is @someTwitterUser, the handle is 'someTwitterUser'.

* 2. Group that matches an email address. Ex: 'me@my.com'

* 5. Group that matches a URL in the input text. Ex: 'http://google.com', 'www.google.com', or just 'google.com'.

* 3. Twitter handle match here. If the match is @someTwitterUser, the handle is 'someTwitterUser'.

* 4. Group that matches an email address.

* 6. Group that matches a protocol URL (i.e. 'google.com'). This is used to match protocol URLs with just a single text word, like 'http://localhost', where we won't double check that the domain name has at least one '.' in it. This protocol match is used for the case of a 'www.' prefixed URL. Will be an empty string if it is not a protocol-relative match. We need to know the character before the '/' in order to determine if it is a valid match or the // was in a string we don't want to auto-link.

* 7. A protocol-relative ('//') match for the case of a known TLD prefixed URL. Will be an empty string if it is not a protocol-relative match. We need to know the character before the '/' in order to determine if it is a valid match or the // was in a string we don't want to auto-link.

* 8. A protocol-relative ('//') match for the case of a known TLD prefixed URL. Will be an empty string if it is not a protocol-relative match. See #6 for more info.

* This also includes a path, url parameters, or hash anchors. Ex: google.com/path/to/file?q1=1&q2=2#myAnchor

* 6. Group that matches a protocol URL (i.e. 'http://google.com'). This is used to match protocol URLs with just a single text word, like 'http://localhost', where we won't double check that the domain name has at least one '.' in it. This protocol match is used for the case of a 'www.' prefixed URL. Will be an empty string if it is not a protocol-relative match. We need to know the character before the '/' in order to determine if it is a valid match or the // was in a string we don't want to auto-link.

* 7. A protocol-relative ('//') match for the case of a known TLD prefixed URL. Will be an empty string if it is not a protocol-relative match. See #6 for more info.


@gregory_jacobs Autolinker.matchParser.MatchParser = Autolinker.Util.extend(Object, { urls: Boolean, email: Boolean, twitter: Boolean } Property) matcherRegex: RegExp */

// For matching a twitter handle match. Ex: @gregory_jacobs

// something @ for email addresses (a.k.a. local-part)

// match protocol, allow in format "http://" or "mailto:". However, do not match the first part of something like 'link:http://www.google.com' (i.e. don't match 'link:'). Also, make sure we don't interpret 'google.com:8000' as a protocol here (i.e. ignore a trailing port number in this regex)

// starting with 'www.'

// anything looking at all like a domain, non-unicode domains, not ending in a period

tldRegex = /\?:\?international|construction|contractors|enterprises|photography|productions|foundation|immobilien|industries|management|properties|technology|christmas|community|directory|education|equipment|institute|marketing|solutions|vacations|bargains|boutique|builders|catering|cleaning|clothing|computer|diamonds|graphics|holdings|lighting|partners|plumbing|supplies|training|ventures|academy|careers|company|cruises|domains|exposed|flights|florist|gallery|guitars|holiday|kitchen|neustar|okinawa|recipes|rentals|reviews|shiksha|singles|support|systems|agency|berlin|camera|center|coffee|condos|dating|estate|events|expert|futbol|kaufen|luxury|maison|monash|museum|nagoya|photos|repair|rent|social|supply|tattoo|tienda|travel|viasjes|vilas|vision|voting|voyage|actor|build|cards|cheap|codes|dance|email|glas|house|mango|ninja|part|photo|shoes|solar|today|tokyo|tools|watch|works|aero|arajalasia|best|bike|blue|buzz|camp|chu
Return out with no changes for match types that are disabled (url, email, twitter), or for matches that are `null` invalid (false positives from the matcherRegex, which can't use look-behinds since they are unavailable in JS). `processCandidateMatch` {matchDescObj} {matchStr} Generate replacement text for the match from the `replaceFn` {matchDescObj} {prefixStr} {replaceStr} {suffixStr} `null` Not all matches found by the regex are actual URL/email/Twitter matches, as determined by the {matchDescObj} `null` this case, the method returns `null`. Otherwise, a valid Object with `prefixStr`, `match`, and `suffixStr` is returned.`matchDescObj` `null` `param {String} matchStr The full match that was found by the {matchDescObj} `null` `param {String} twitterMatch The matched text of a Twitter handle, if the match is a Twitter match.`matchDescObj` `param {String} twitterHandle The actual Twitter user (i.e. the word after the `@` sign in a Twitter match) `param {String} emailAddressMatch The matched email address for an email address match.`matchDescObj` `param {String} urlMatch The matched URL string for a protocol match. Ex: `http://yahoo.com`. This is used to match `null` something like `http://localhost`, where we won't double check that the domain name has at least one `.` in it.`matchDescObj` `param {String} urlMatch The URL string for a protocol match. Ex: `http://localhost`. 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from the match

```javascript
from the match
```

```javascript
match = new Autolinker.match.Twitter( { matchedText: matchStr, twitterHandle: twitterHandle } );
```

```javascript

```javascript
if ( protocolRelativeMatch ) {

```javascript
charBeforeMatch );
```

```javascript
matchStr = matchStr.slice( 1 );
```

```javascript
// fix up the 'matchStr' if there was a preceding char from the
```

```javascript
match
```

```javascript
matchStr = new Autolinker.match.Url( {
```

```javascript
stripPrefix : this.stripPrefix
```

```javascript
};
```

```javascript
return {
```

```javascript
match     : match
```

```javascript
}
},

```

```javascript
/*global Autolinker */
/*jshint scripturl:true */
```

```javascript
/**

```javascript
@private
```

```javascript
@class Autolinker.MatchValidator
```

```javascript
 * Used by Autolinker to filter out false positives from the
```

```javascript
* Due to the limitations of regular expressions (including the missing feature of look-behinds in JS regular expressions),
```

```javascript
* we cannot always
determine the validity of a given match. This class applies a bit of additional logic to filter out any
```

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```

```javascript
* we cannot always
determine the validity of a given match. This class applies a bit of additional logic to filter out any
```

```javascript`
```
URL matches which do not have at least one word character in the domain name (effectively skipping over matches like `git:1.0`).

A protocol-relative URL match (a URL beginning with `//`) whose previous character is a word character (`http://localhost`, where we won’t double check that the domain name has at least one `.` in it) returns `true` (effectively skipping over matches like `git:1.0`).

Returns `true` if the match is not a URL match and the previous character is a word character (ex., a space, such as: `//`, or a letter, such as: `a/`).

The match is invalid if there is a word character preceding the `//`.

@returns {Boolean} `true` if the match given is valid and should be processed, or `false` if the match is invalid and/or should just not be processed.

* * * 

isValidMatch : function( urlMatch, protocolUrlMatch, protocolRelativeMatch ) {

if( ( protocolUrlMatch && !this.isValidUriScheme( protocolUrlMatch ) ) ||
this.urlMatchDoesNotHaveProtocolOrDot( urlMatch, protocolUrlMatch ) ||       // At least one period ('.') must exist in the URL match for us to consider it an actual URL, *unless* it was a full protocol match (like `http://localhost`)
this.urlMatchDoesNotHaveAtLeastOneWordChar( urlMatch, protocolUrlMatch ) ||
this.isInvalidProtocolRelativeMatch( protocolRelativeMatch )                 // A protocol-relative match which has a word character in front of it (so we can skip something like `abc/google.com`)  
) {
    return false;
}

return true;
}

isValidUriScheme : function( uriSchemeMatch ) {

    var uriScheme = uriSchemeMatch.match( this.uriSchemeRegex )[ 0 ].toLowerCase();

    return ( uriScheme !== 'javascript:' && uriScheme !== 'vbscript:' );
},

urlMatchDoesNotHaveProtocolOrDot : function( urlMatch, protocolUrlMatch ) {

    return ( !!urlMatch && ( !protocolUrlMatch || !this.hasFullProtocolRegex.test( protocolUrlMatch ) ) && urlMatch.indexOf( '.' ) === -1 );
}

urlMatchDoesNotHaveAtLeastOneWordChar : function( urlMatch, protocolUrlMatch ) {

    if( urlMatch && protocolUrlMatch ) {
        return !this.hasWordCharAfterProtocolRegex.test( urlMatch );
    } else {
        return false;
    }

}

isInvalidProtocolRelativeMatch : function( protocolRelativeMatch ) {

    // A protocol-relative match which has a word character in front of it (so we can skip something like `abc/google.com`)  
    return false;
}

var uriScheme = uriSchemeMatch.match( this.uriSchemeRegex )[ 0 ].toLowerCase();

if( uriScheme !== 'javascript:' && uriScheme !== 'vbscript:' ) {

    return ( !protocolUrlMatch || !this.hasFullProtocolRegex.test( protocolUrlMatch ) ) ||
    this.urlMatchDoesNotHaveAtLeastOneWordChar( urlMatch, protocolUrlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.urlMatchDoesNotHaveProtocolOrDot( urlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.isInvalidProtocolRelativeMatch( protocolRelativeMatch )                 // A protocol-relative match which has a word character in front of it (so we can skip something like `abc/google.com`)  
} else {
    return ( !protocolUrlMatch || !this.hasFullProtocolRegex.test( protocolUrlMatch ) ) &&
    this.urlMatchDoesNotHaveAtLeastOneWordChar( urlMatch, protocolUrlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.urlMatchDoesNotHaveProtocolOrDot( urlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.isInvalidProtocolRelativeMatch( protocolRelativeMatch )                 // A protocol-relative match which has a word character in front of it (so we can skip something like `abc/google.com`)  
}

var uriScheme = uriSchemeMatch.match( this.uriSchemeRegex )[ 0 ].toLowerCase();

if( uriScheme !== 'javascript:' && uriScheme !== 'vbscript:' ) {

    return ( !protocolUrlMatch || !this.hasFullProtocolRegex.test( protocolUrlMatch ) ) ||
    this.urlMatchDoesNotHaveAtLeastOneWordChar( urlMatch, protocolUrlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.urlMatchDoesNotHaveProtocolOrDot( urlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.isInvalidProtocolRelativeMatch( protocolRelativeMatch )                 // A protocol-relative match which has a word character in front of it (so we can skip something like `abc/google.com`)  
}

var uriScheme = uriSchemeMatch.match( this.uriSchemeRegex )[ 0 ].toLowerCase();

if( uriScheme !== 'javascript:' && uriScheme !== 'vbscript:' ) {

    return ( !protocolUrlMatch || !this.hasFullProtocolRegex.test( protocolUrlMatch ) ) ||
    this.urlMatchDoesNotHaveAtLeastOneWordChar( urlMatch, protocolUrlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.urlMatchDoesNotHaveProtocolOrDot( urlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.isInvalidProtocolRelativeMatch( protocolRelativeMatch )                 // A protocol-relative match which has a word character in front of it (so we can skip something like `abc/google.com`)  
}

var uriScheme = uriSchemeMatch.match( this.uriSchemeRegex )[ 0 ].toLowerCase();

if( uriScheme !== 'javascript:' && uriScheme !== 'vbscript:' ) {

    return ( !protocolUrlMatch || !this.hasFullProtocolRegex.test( protocolUrlMatch ) ) ||
    this.urlMatchDoesNotHaveAtLeastOneWordChar( urlMatch, protocolUrlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.urlMatchDoesNotHaveProtocolOrDot( urlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.isInvalidProtocolRelativeMatch( protocolRelativeMatch )                 // A protocol-relative match which has a word character in front of it (so we can skip something like `abc/google.com`)  
}

var uriScheme = uriSchemeMatch.match( this.uriSchemeRegex )[ 0 ].toLowerCase();

if( uriScheme !== 'javascript:' && uriScheme !== 'vbscript:' ) {

    return ( !protocolUrlMatch || !this.hasFullProtocolRegex.test( protocolUrlMatch ) ) ||
    this.urlMatchDoesNotHaveAtLeastOneWordChar( urlMatch, protocolUrlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.urlMatchDoesNotHaveProtocolOrDot( urlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.isInvalidProtocolRelativeMatch( protocolRelativeMatch )                 // A protocol-relative match which has a word character in front of it (so we can skip something like `abc/google.com`)  
}

var uriScheme = uriSchemeMatch.match( this.uriSchemeRegex )[ 0 ].toLowerCase();

if( uriScheme !== 'javascript:' && uriScheme !== 'vbscript:' ) {

    return ( !protocolUrlMatch || !this.hasFullProtocolRegex.test( protocolUrlMatch ) ) ||
    this.urlMatchDoesNotHaveAtLeastOneWordChar( urlMatch, protocolUrlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.urlMatchDoesNotHaveProtocolOrDot( urlMatch ) ||       // At least one period ('.') must exist in the domain name after a protocol match. Ex: skip over something like `git:1.0`.
    this.isInvalidProtocolRelativeMatch( protocolRelativeMatch )                 // A protocol-relative match which has a word character in front of it (so we can skip something like `abc/google.com`)  
}
* character (ex, a space, such as: '//', or a letter, such as: 'a//'). The match is invalid if there is a word character
preceding the '//'.

```javascript
function isInvalidProtocolRelativeMatch( protocolRelativeMatch ) {
  return ( !!protocolRelativeMatch && this.invalidProtocolRelMatchRegex.test( protocolRelativeMatch ) )
}
```
Autolinker.match.Match}) for more details.\n
```javascript
Autolinker.match.Match, {\n  \n  \n  ```
```

```
1;\n }\n }\n // Push fake entry to simplify cache bounds checks\n this.bMarks.push(s.length);\n this.eMarks.push(s.length);\n this.tShift.push(0);\n this.lineMax = this.bMarks.length - 1; // don't count last fake line\n }\n
// StateBlock.prototype.isEmpty = function isEmpty(line) {\n return this.bMarks[line] + this.tShift[line] >= this.eMarks[line];\n }\n
// StateBlock.prototype.skipEmptyLines = function skipEmptyLines(from) {\n for (var max = this.lineMax; from < max; from++) {\n   if (this.bMarks[from] + this.tShift[from] < this.eMarks[from]) {\n     break;\n   }\n }\n return from;\n }\n
// Skip spaces from given position.\n StateBlock.prototype.skipSpaces = function skipSpaces(pos) {\n for (var max = this.src.length; pos < max; pos++) {\n   if (this.src.charCodeAt(pos) !== 0x20/* space */) { break; }\n }\n return pos;\n }\n
// Skip char codes from given position.\n StateBlock.prototype.skipChars = function skipChars(pos, code, begin, end, indent, keepLastLF) {\n var i, first, last, queue, shift,\n     line = begin;\n if (begin >= end) { return ''; }\n begin = 0;\n // Opt: don't use push queue for single line;\n if (line + 1 === end) { return this.bMarks[line] + Math.min(this.tShift[line], indent); }\n last = keepLastLF ? this.eMarks[line] + 1 : this.eMarks[line];\n return this.src.slice(first, last);\n }\n
// Queue all lines\n this.lineMax = this.bMarks.length - 1; // don't count last fake line\n
module.exports = BlockState;

module.exports = new Array(1024);
```javascript
// `[-+*/]
// module chunks = 0"," // Block quotes

\n


// Search the end of the blockquote

\\n // Block ends with either: 1. an empty line outside:  \\
\\n // \n\\n // 2. an empty line inside: \n\\n // \n\\n // >\n\\n // 3. another tag
\\n //  \\

\\n // This line is inside the blockquote. \n\\n // skip one optional space after >\n\\n // (state.src.charCodeAt(pos++) === 0x3E /* > */) \n\\n // Case 1: line is not inside the blockquote, and this line is empty. \n\\n // if (state.src.charCodeAt(pos++) !== 0x3E/* > */) \n\\n // Case 2: line is not inside the blockquote, and the last line was empty. \n\\n // if (lastLineEmpty) \n\\n // Case 3: another tag found. \n\\n // for (nextLine = startLine + 1; \n\\n // nextLine < endLine; nextLine++) \n\\n // Line is not inside the blockquote, and this line is empty. \n\\n // if (state.src.charCodeAt(pos++) !== 0x3E/* > */) \n\\n // Check the block quote marker if (state.src.charCodeAtAt(pos++) === 0x3E/* > */) \n\\n
// we know that it's going to be a valid blockquote, so no point trying to find the end of it in silent mode \n
// if (silent) \n
// skip one optional space after >\n
// if (state.src.charCodeAtAt(pos) === 0x20) \n
// state.blkIndent = 0;\n
// oldBMarks = \n
// state.blkIndent \n
// return true;\n
// state.tokens.push({

// type: 'hr',

// lines: [ startLine, state.line ],

// level: state.level++});\n
// state.parser.tokenize(state, startLine, nextLine);
```
Open Source Used In SDWan

```

```
If any of list item is tight, mark list as tight

Item become loose if finish with empty line, 
but we should filter last element, because it means list finish

If prevEmptyEnd = (state.line - dlLine) > 1 && state.isEmpty(state.line - 1) 

state.tight = oldTight
state parenType = OldParentType;
state blkIndent = oldBlkIndent;
state Indent = oldDDIndent;
state tShift = state TShift[dlLine];
state ParentType = state parenType;
state blkIndent = state blkIndent = state TShift[dlLine] + 2;
state tShift[dlLine] = contentStart - state hMarks[dlLine];
state.tight = true;
state parenType = 'deflist';
state parser tokenize(state, dlLine, endLine, true);

//

// WEBPACK FOOTER
//


validator.

*\n* @api private\n*\n* function ParserInline() { \n\n  this.ruler = new Ruler();\n  for (var i = 0; i < _rules.length; i++) { \n  this.ruler.push(_rules[i][0], _rules[i][1]); \n\n  } \n\n  // Can be overridden with a custom\n  this.validateLink = validateLink;\n  \n  // Skip a single token by running all rules in validation\n  mode.\n*\n* Returns `true` if any rule reports success.\n*\n* @api private\n*\n* function ParserInline.prototype.skipToken = function (state) { \n  var rules = this.ruler.getRules('');\n  var len = rules.length;\n  var pos = state.pos;\n  var i, cached_pos,\n  \n  if ((cached_pos = state.cacheGet(pos)) > 0) { \n    state.pos = cached_pos;\n    \n    return \n    \n    for (i = 0; i < len; i++) { \n      if (rules[i][state, true]) { \n        state.cacheSet(pos, state.pos);\n        \n        return \n        \n      } \n    } \n\n    state.pos++;
    \n    state.pos = state.pos;
    \n    return \n    \n  } \n\n  // Try all possible rules.\n  \n  // On success, the rule should return // - update `state.pos` \n  // - update `state.tokens` \n  // - return true \n  \n  for (i = 0; i < len; i++) { \n    ok = rules[i](state, true);\n    \n    if (ok) { \n      state.pos = pos;\n      \n      return \n      \n    } \n  } \n\n  state.pending += state.src[state.pos++];
\n  return \n\n};\n\n/**\n* Generate tokens for the given input range.\n*\n* @api private\n*\n* function ParserInline.prototype.tokenize = function (state) { \n  var rules = this.ruler.getRules('');\n  var len = rules.length;\n  var end = state.posMax;\n  var ok, i;\n\n  while (state.pos < end) { \n  \n  // Try all possible rules.\n    \n    for (i = 0; i < len; i++) { \n      ok = rules[i](state, false);\n      \n      if (ok) { \n        break; \n        \n        continue;
      } \n\n      state.pending += state.src[state.pos++];
\n      \n      return \n      \n    } \n\n    if (state.pending) \n      \n      \n    state.pos++; \n\n    \n    \n  } \n\n  return \n\n};\n\n/**\n* Parse the given input string.\n*\n* @param  {String} `str`\n* @param  {Object} `options`\n* @param  {Object} `env`\n* @api private\n*\n* function ParserInline.prototype.parse = function (str, options, env, outTokens) { \n  var state = new StateInline(str, this, options, env, outTokens);
  this.tokenize(state);
\n};\n\n/**\n* Validate the given `url` by\n* checking for bad protocols.\n*\n* @param  {String} `url`\n* @return {Boolean}\n*\n* function validateLink(url) { \n  var BAD_PROTOCOLS = ['vbscript', 'javascript', 'file', 'data'];\n  \n  var str = url.trim().toLowerCase();\n  \n  str = replaceEntities(str);
  \n  if (str.indexOf(':') !== -1 && BAD_PROTOCOLS.indexOf(str.split(':')[0]) !== -1) { \n    return false; \n  } \n\n  return true;\n};\n\n/**\n* Expose `ParserInline`\n*\n* module.exports = function text(state, silent) { \n  var pos = state.pos;\n  var str = url.trim().toLowerCase();\n  \n  if (!silent) { \n    \n    if (str.indexOf(':') !== -1 && BAD_PROTOCOLS.indexOf(str.split(':')[0]) !== -1) { \n      return false; \n    } \n\n    return true; \n  } \n\n  var pmx = state.pend.length;\n  var pmx = state.posMax;\n  \n  if (pmx < state.posMax & & \n\n  isTerminatorChar(state.src.charCodeAt(0))) { \n    if (pos === state.pos) { \n      return false; \n    } \n\n    if (!silent) { \n      \n      state.pend += state.src.slice(state.pos, pos); \n    } \n\n    state.pos = pos;\n    \n    return \n  } \n\n  // Webpack Footer
// ./node_modules/remarkable/lib/rules_inline/text.js
// module id = 1045
// module chunks = 0,"" // Skip text characters for text token, place those to pending buffer
// and increment current pos\n\n// Rule to skip pure text\n// '{}$%@~+=:' reserved for extensions\n\nfunction isTerminatorChar(ch) { \n  var case 0x0A/* \n */:\n  var case 0x2A/* * */:\n  var case 0x5F/* _ */:\n  var case 0x5E/* ^ */:\n  var case 0x5B/* [ */:\n  var case 0x5D/* ] */:\n  var case 0x24/* $ */:\n  var case 0x25/* % */:\n  var case 0x40/* @ */:\n  var case 0x7E/* ~ */:\n  var case 0x2B/* + */:\n  var case 0x3D/* = */:\n  var case 0x3A/* : */:\n\n  return \n\n};\n\n/**\n* Expose `ParserInline`\n*\n* module.exports = function newline(state, silent) { \n  var pos = state.pos;\n  \n  if (pos < state.posMax & & \n\n  isTerminatorChar(state.src.charCodeAt(0))) { \n    if (pos === state.pos) { \n      return false; \n    } \n\n    if (!silent) { \n      \n      state.pend += state.src.slice(state.pos, pos); \n    } \n\n    state.pos = pos;\n    \n    return \n  } \n\n  // Webpack Footer
// ./node_modules/remarkable/lib/rules_inline/text.js
// module id = 1044
// module chunks = 0,"" // Skip text characters for text token, place those to pending buffer
// and increment current pos\n\n// Rule to skip pure text
// '{}'"" // Skip text characters for text token, place those to pending buffer
// and increment current pos\n\n
unescaped markers can't start/end an emphasis

```javascript
  const state = state || { level: 0, levelMax: 1, pos: 0, posMax: 0, options: { maxNesting: 10, max: -1 }, parser: { tokenize: state.tokenize }, src: '', pending: '' }; return;

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.pos < state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }

  if (state.level < state.options.maxNesting) { state.level++; }

  state.parser.tokenize(state);

  if (state.level > state.options.maxNesting) { return false; }
```

```javascript
  const content = state.src.slice(state.posMax, state.pos);

  if (state.options.maxNesting) { return true; }

  return content.replace(UNESCAPE_RE, '$1')
```
```javascript
function parseLinkLabel(state, pos) {
    var labelStart, labelEnd, label, href, title, pos, ref, code, isImage = false, oldPos = state.pos, oldLength = state.posMax;
    start = state.pos;

    if (start + 2 >= max) { return false; }
    if (state.src.charCodeAt(start) !== 0x21/* ! */) {
        pos = labelEnd + 1;
        if (pos < max && state.src.charCodeAt(pos) !== 0x28/* ( */) {
            state.pos = labelStart + 1;
            label = state.src.substr(labelStart, pos + 1);
            state.pos = pos + 1;

            if (state.env.references[normalizeReference(label)]) {
                pos = state.pos;
            } else {
                state.pos = start + 1;
            }

            return true;
        } else {
            state.push({
                type: 'sup',
                level: state.level,
                content: state.env.normalizerReference(label)
            });
        }
    }

    if (label) {
        state.push({
            type: 'link',
            label: label
        });
    }

    return true;
}
```

This code snippet is part of the `remarkable` library, which is used for rendering Markdown content. The function `parseLinkLabel` is responsible for parsing the link label and extracting the href and title attributes from the Markdown content. The `normalizeReference` function is used to ensure that the reference labels are normalized before being used for lookups in the reference list.
'javascript',
  'aaa',
  'aaas',
  'about',
  'acap',
  'cap',
  'cid',
  'crid',
  'data',
  'dav',
  'dict',
  'dns',
  'file',

`http://jgm.github.io/CommonMark/spec.html#autolinks`

```javascript
'use strict';

module.exports = [
  'coap',
  'doi',

```
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```
/*
 * We consider the elements and attributes below to be safe. Ideally you * don’t add any new ones but feel free to remove unwanted ones. */

/* */

var ALLOWED_TAGS = null;
var DEFAULT_ALLOWED_TAGS = addToSet([], [].concat(toConsumableArray(html), toConsumableArray(svg), toConsumableArray(svgFilters), toConsumableArray(mathMl), toConsumableArray(text)));

/* */

var ALLOWED_ATTR = null;
var DEFAULT_ALLOWED_ATTR = addToSet([], [].concat(toConsumableArray(html$1), toConsumableArray(svg$1), toConsumableArray(mathMl$1), toConsumableArray(xml)));

/* */

var FORBID_TAGS = null;
var FORBID_ATTR = null;

/* */

var ALLOW_ARIA_ATTR = true;

/* */

var ALLOW_DATA_ATTR = true;

/* */

var ALLOW_UNKNOWN_PROTOCOLS = false;

/* */

var SAFE_FOR_JQUERY = false;

/* */

var SAFE_FOR_TEMPLATES = false;

/* */

var WHOLE_DOCUMENT = false;

/* */

var SET_CONFIG = false;

/* */

var RETURN_DOM = false;

/* */

var RETURN_DOM_FRAGMENT = false;

/* */

var RETURN_DOM_IMPORT = false;

/* */

var SANITIZE_DOM = true;

/* */

var KEEP_CONTENT = true;

/* */

var USE_PROFILES = {};

/* */

var FORMATTING = addToSet([], [
  'audio', 'head', 'script', 'style', 'template', 'svg', 'video'],
  'HTMLBodyElement');

/* */

var URI_SAFE_ATTRIBUTES = addToSet([], [
  'alt', 'class', 'for', 'id', 'label', 'name', 'pattern', 'placeholder', 'summary', 'title', 'value', 'style', 'xmlns']);

/* */

var CONFIG = null;

/* */

/* */
```

```

/* */

var formElement = document.createElement('form');

/* */

/* */
```

/* */

var parseConfig = function parseConfig(cfg) {

/* */

var Shield configuration object from tampering */

```

/* */

```

/* */

```

var ALLOWED_TAGS = 'ALLOWED_TAGS' in cfg ? addToSet({}, cfg.ALLOWED_TAGS) : DEFAULT_ALLOWED_TAGS;

/* */

var ALLOWED_ATTR = 'ALLOWED_ATTR' in cfg ? addToSet({}, cfg.ALLOWED_ATTR) : DEFAULT_ALLOWED_ATTR;

/* */

var FORBID_TAGS = 'FORBID_TAGS' in cfg ? addToSet({}, cfg.FORBID_TAGS) : {};

/* */

var FORBID_ATTR = 'FORBID_ATTR' in cfg ? addToSet({}, cfg.FORBID_ATTR) : {};

/* */

var USE_PROFILES = 'USE_PROFILES' in cfg ? cfg.USE_PROFILES : false;

/* */

var ALLOW_ARIA_ATTR = cfg.ALLOW_ARIA_ATTR !== false; // Default true

/* */

var ALLOW_DATA_ATTR = cfg.ALLOW_DATA_ATTR !== false; // Default true

/* */

var ALLOW_UNKNOWN_PROTOCOLS = cfg.ALLOW_UNKNOWN_PROTOCOLS !== false; // Default true

/* */

var SAFE_FOR_JQUERY = cfg.SAFE_FOR_JQUERY !== false; // Default true

/* */

var SAFE_FOR_TEMPLATES = cfg.SAFE_FOR_TEMPLATES !== false; // Default true

/* */

var WHOLE_DOCUMENT = cfg.WHOLE_DOCUMENT !== false; // Default true

```

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false; // Default false
RETURN_DOM = cfg.RETURN_DOM || false; // Default false
RETURN_DOM_FRAGMENT = cfg.RETURN_DOM_FRAGMENT || false; // Default false
RETURN_DOM_IMPORT = cfg.RETURN_DOM_IMPORT || false; // Default false
FORCE_BODY = cfg.FORCE_BODY || false; // Default false
SANITIZE_DOM = cfg.SANITIZE_DOM !== false; // Default true
KEEP_CONTENT = cfg.KEEP_CONTENT !== false; // Default true
IS_ALLOWED_URI$1 =
cfg.ALLOWED_URI$REGEXP || IS_ALLOWED_URI$1;
if (SAFE_FOR_TEMPLATES) {
ALLOW_DATA_ATTR = false;
}
if (RETURN_DOM_FRAGMENT) {
RETURN_DOM = true;
}
/* Parse profile info */ if (USE_PROFILES) {
ALLOWED_TAGS = addToSet([],
.concat(toConsumableArray(text)));
ALLOWED_ATTR = [];
if (USE_PROFILES.html === true) {
ALLOWED_TAGS = html;
ALLOWED_ATTR = html$1;
}
if (USE_PROFILES.svg === true) {
ALLOWED_TAGS = svg;
ALLOWED_ATTR = svg$1;
}
if (USE_PROFILES.svgFilters === true) {
ALLOWED_TAGS = svgFilters;
ALLOWED_ATTR = svg$1;
ALLOWED_ATTR = xml;
}
if (USE_PROFILES.mathMl === true) {
ALLOWED_TAGS = mathMl;
ALLOWED_ATTR = mathMl$1;
ALLOWED_ATTR = xml;
}
}
if (cfg.ADD_TAGS) {
if (ALLOWED_TAGS === DEFAULT_ALLOWED_TAGS) {
ALLOWED_TAGS = clone(ALLOWED_TAGS);
}
ALLOWED_TAGS = clone(ALLOWED_TAGS, cfg.ADD_TAGS);
}
if (cfg.ADD_ATTR) {
if (ALLOWED_ATTR === DEFAULT_ALLOWED_ATTR) {
ALLOWED_ATTR = clone(ALLOWED_ATTR);
}
ALLOWED_ATTR = clone(ALLOWED_ATTR, cfg.ADD_ATTR);
}
if (cfg.ADD_URI_SAFE_ATTR) {
ALLOWED_ATTR = clone(ALLOWED_ATTR, cfg.ADD_URI_SAFE_ATTR);
}
/* Add #text in case KEEP_CONTENT is set to true */
if (KEEP_CONTENT) {
ALLOWED_TAGS['#text'] = true;
}
/* Prevent further manipulation of configuration */
// Not available in IE8, Safari 5, etc.
if (Object & & 'freeze' in Object) {
Object.freeze(cfg);
}
/* AddForceRemove */
*FUNCTION* @param a DOM node
*VAR* var _forceRemove = function _forceRemove(node) {
DOMPurify.removed.push({
element: node
});
try {
node.parentNode.removeChild(node);
} catch (err) {
node.outerHTML = '; in
*removeAttribute
*FUNCTION* @param an Attribute name
*FUNCTION* @param a DOM node
*VAR* var _removeAttribute = function _removeAttribute(name, node) {
try {
DOMPurify.removed.push({
attribute: null,
from: node
});
} catch (err) {
DOMPurify.removed.push({
attribute: null,
from: node
});
}
node.removeAttribute(name);
}
/* _initDocument
*FUNCTION* @param a string of dirty markup
*FUNCTION* @return a DOM, filled with the dirty markup
*VAR* var _initDocument = function _initDocument(dirty) {
/* Create a HTML document */
var doc = void 0;
var body = void 0;
if (FORCE_BODY) {
dirty = '<remove></remove>' + dirty;
}
/* Use XHR if necessary because Safari 10.1 and newer are buggy */
if (useXHR) {
try {
dirty = encodeURI(dirty);
}
var xhr = new XMLHttpRequest();
xhr.responseType = 'document';
xhr.open('GET', 'data:text/html;charset=utf-8;', +
dirty, false);
xhr.send(null); doc =
xhr.responseText;
}
/* Use DOMParser to workaround Firefox bug (see comment below) */
if (useDOMParser) {
try {
doc = new DOMParser().parseFromString(dirty, 'text/html');
} catch (err) {
}
/* Otherwise use createHTMLDocument, because DOMParser is unsafe */
if (doc) {
body = implementation.createHTMLDocument('');
body = doc.body;
body.parentNode.removeChild(body.parentNode.firstChildElementChild);
body.outterHTML = dirty;
/* Work on whole document or just its body */
return getElementsByTagName.call(doc,
WHOLE_DOCUMENT ? 'html' : 'body')[0];
}
/* Safari 10.1+ (unfixed as of time of writing) has a catastrophic bug in its implementation of DOMParser such that the following executes the
JavaScript:
// new DOMParser()
// .parseFromString('<svg onload=alert(document.domain)></svg>', 'text/html');
Later, it was also noticed that even more assumed benign and inert ways of creating a document are now insecure thanks to Safari. So we work around that with a feature test and use XHR to create the document in
// case we really have to. That one seems safe for now.
// However, Firefox uses a different parser for
// innerHTML rather than
// DOMParser (see https://bugzilla.mozilla.org/show_bug.cgi?id=1205631)
// which means that you *must* use DOMParser, otherwise the output may
// not be safe if used in a document.write
context later.
// So we feature detect the Firefox bug and use the DOMParser if necessary.
if
(DOMPurify.isSupported) {
  (function () {
    var doc = _initDocument('<svg>g
 companyId=$"this.parentNode.removeChild()"></g></svg>');
  if
(doc.querySelectorAll('svg')) {
    useXHR = true;
  }
}
try
(docdoc = _initDocument('<svg><p><style><img src="</style><img src=x onerror=alert(1)//"></svg>');
if
(doc.querySelector('svg img')) {
  useDOMParser = true;
}
}

/**
 * _createIterator
 * @param  document/fragment to create iterator for
 * @return iterator instance
 */
var _createIterator = function _createIterator(root) {
  return createNodeIterator.call(root.ownerDocument || root, root, NodeFilter.SHOW_ELEMENT | NodeFilter.SHOW_COMMENT | NodeFilter.SHOW_TEXT, function () {
    return NodeFilter.FILTER_ACCEPT;
  }, false);
}

/**
 * _isClobbered
 * @param element to check for clobbering attacks
 * @return true if clobbered, false if safe
 */
var _isClobbered = function _isClobbered(elm) {
  if
(elm instanceof Text || elm instanceof Comment) {
    return false;
  }
  if
(typeof elm.nodeName !== 'string' || typeof elm.textContent !== 'string' || typeof elm.removeChild !== 'function' ||
(elm.attributes instanceof NamedNodeMap) || typeof elm.removeAttribute !== 'function' || typeof elm.setAttribute !== 'function') {
    return true;
  }
  return false;
}

/**
 * _isNode
 * @param object to
 * @return true is object is a DOM node
 */
var _isNode = function _isNode(obj) {
  return (typeof Node === 'undefined' ? 'undefined' : _typeof(Node)) === 'object' ? obj instanceof Node : obj && (typeof obj === 'undefined' ? 'undefined' : _typeof(obj)) === 'object' && typeof obj.nodeType === 'number' && typeof obj.nodeName === 'string';
}

/**
 * _executeHook
 * Execute user configurable
 * hooks
 * @param  {String} entryPoint  Name of the hook's entry point
 * @param  {Node} currentNode
 */
var _executeHook = function _executeHook(entryPoint, currentNode, data) {
  if
(!hooks[entryPoint]) {
    return;
  }

  hooks[entryPoint].forEach(function (hook) {
    hook.call(DOMPurify, currentNode, data, CONFIG);
  });
}

/**
 * _sanitizeElements
 * @protect nodeName
 * @protect textContent
 * @protect removeChild
 * @param   node to check for permission to exist
 * @return  true if node was
 * left alive
 */
var _sanitizeElements = function _sanitizeElements(currentNode) {
  var content = void 0;

  /* Execute a hook if present */
  _executeHook('beforeSanitizeElements', currentNode, null);

  /* Check if element is clobbered or can clobber */
  if
(_isClobbered(currentNode)) {
    _forceRemove(currentNode);
    return true;
  }

  /* Now let's check the element's type and name */
  var tagName = currentNode.nodeName.toLowerCase();

  /* Execute a hook if present */
  _executeHook('uponSanitizeElement', currentNode, { tagName: tagName, allowedTags: ALLOWED_TAGS });

  /* Remove element if anything forbids its presence */
  if
(!ALLOWED_TAGS[tagName] || FORBID_TAGS[tagName]) {
    /* Keep content except for black-listed elements */
    if
(KEEP_CONTENT & FORBID_CONTENTS[tagName] &
typeOf

  /* Execute a hook if present */
  _executeHook('afterSanitizeElements', currentNode, null);

  /* Convert markup to cover jQuery behavior */
  if
(SAFE_FOR_JQUERY &

  /* Execute a hook if present */
  _executeHook('afterSanitizeElements', currentNode, null);

  /* Sanitize element content to be template-safe */
  if
(SAFE_FOR_TEMPLATES & currentNode.nodeType === 3) {
    /* Get the element's text content */
    content = currentNode.textContent;
    content = content.replace(MUSTACHE_EXPR$$1, ' ');
    content = content.replace(ERB_EXPR$$1, ' ');
    if
(currentNode.textContent !== content) {
      DOMPurify.removed.push({ element: currentNode.cloneNode() });
      currentNode.textContent = content;
    }
  } else {
    /* Convert markup to cover jQuery behavior */
    if
(SAFE_FOR_JQUERY & currentNode.firstChildChild &

  /* Execute a hook if present */
  _executeHook('afterSanitizeElements', currentNode, null);

  /* Convert markup to cover jQuery behavior */
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  /* Convert markup to cover jQuery behavior */
  if
(SAFE_FOR_JQUERY & currentNode.firstChildChild &

  /* Execute a hook if present */
  _executeHook('afterSanitizeElements', currentNode, null);
```javascript
@protect removeAttribute;
 *
 @protect setAttribute
 *
 * @param {node} node to sanitize
 * @return {void
 */

// eslint-disable-next-line complexity
var _sanitizeAttributes = function _sanitizeAttributes(currentNode) {

// Safari (iOS + Mac), last tested v8.0.5, crashes if you try to
// remove a "name=" attribute from an <img> tag that has an
// id=" attribute at the time.
if (lcName === 'name' && currentNode.nodeName === 'IMG' &&

attributes.id)
  _removeAttribute('id', currentNode);

  _removeAttribute(name, currentNode);

/* This attribute is safe
 * Allow unknown protocols: This provides support for links that
 * are handled by protocol handlers which may be unknown ahead of
 * time, e.g. fb:, spotify:
 */

/* Check for binary attributes */
/* eslint-disable-next-line no-negated-condition
 * Binary attributes are safe at this point
 */

/* Handle invalid data-* attribute set by try-catch it */
try {
  currentNode.setAttribute(name, value);
  DOMPurify.removed.pop();
} catch (err) {}
```
Execute a hook if present */
    _executeHook('afterSanitizeAttributes', currentNode, null);
} /*

  /**
   *
   * Sanitize
   * Public method providing core sanitation functionality
   *
   * @param {String|Node} dirty string or DOM node
   * @param {Object} configuration object
   */
  // eslint-disable-next-line complexity
  DOMPurify.sanitize = function (dirty, cfg) {
    var body = void 0;
    var importedNode = void 0;
    var currentNode = void 0;
    var oldNode = void 0;
    var returnNode = void 0;
    /* Make sure we have a string to sanitize.
      DO NOT return early, as this will return the wrong type if
      the user has requested a DOM object rather than a string */
    if (!dirty) {
      dirty = '<!-->';
    }
    /* Check we can run. Otherwise fall back or ignore */
    if (!DOMPurify.isSupported) {
      return dirty;
    }
    /* Assign config vars */
    if (!SET_CONFIG) {
      _parseConfig(cfg);
    }
    /* Remove first element node if FILTER is set */
    if (FILTER) {
      _forceRemove(body.firstChild);
    }
    /* Get node iterator */
    var nodeIterator = _createIterator(body);
    /* Now start iterating over the created document */
    while (currentNode = nodeIterator.nextNode()) {
      /* Fix IE's strange behavior with manipulated textNodes #89 */
      if (currentNode.nodeType === 3) {
        /* Ensure that we don't get the same textNodes in
          different DOM trees */
        continue;
      }
      /* Sanitize tags and elements */
      if (_sanitizeElements(currentNode)) {
        continue;
      }
      /* Shadow DOM detected */
      if (currentNode.content instanceof DocumentFragment) {
        _sanitizeShadowDOM(currentNode.content);
    } /*

  /**
   *
   * _sanitizeAttributes
   *
   * @param  fragment to iterate over recursively
   */
  var _sanitizeAttributes = function _sanitizeAttributes(fragment) {
    var shadowNode = void 0;
    var shadowIterator = _createIterator(fragment);

    /* Execute a hook if present */
    _executeHook('beforeSanitizeShadowDOM', fragment, null);

    while (shadowNode = shadowIterator.nextNode()) {
      /* Execute a hook if present */
      _executeHook('uponSanitizeShadowNode', shadowNode, null);

      /* Sanitize tags and elements */
      if (_sanitizeElements(shadowNode)) {
        continue;
      }

      /* Deep shadow DOM detected */
      if (shadowNode.content instanceof DocumentFragment) {
        _sanitizeShadowDOM(shadowNode.content);
      }
      /* Check attributes, sanitize if necessary */
      _sanitizeAttributes(shadowNode);
    }
    /* Execute a hook if present */
    _executeHook('afterSanitizeShadowDOM', fragment, null);
  }
true);

return returnNode;

return return WHOLE_DOCUMENT ? body.outerHTML :

body.innerHTML;

/**
 * Public method to set the configuration once
 * setConfig
 *
 * @param {Object} configuration object
 * @return void
 */

DOMPurify.setConfig = function (cfg) {

_parseConfig(cfg)

SET_CONFIG = true;

DOMPurify.clearConfig = function () {

CONFIG = null;

SET_CONFIG = false;

/**
 * Public method to remove a DOMPurify hook at a given entryPoint
 * (pops it from the stack of hooks if more are present)
 * @param {String} entryPoint
 * @param {Function} hookFunction
 * @return void
 */

DOMPurify.addHook = function (entryPoint, hookFunction) {

if (typeof hookFunction !== 'function') {

return;

}

hooks[entryPoint] = hooks[entryPoint] || [];

hooks[entryPoint].push(hookFunction);

}

/**
 * Public method to remove all DOMPurify hooks at a given entryPoint
 * @param {String} entryPoint
 * @return void
 */

DOMPurify.removeHook = function (entryPoint) {

if (hooks[entryPoint]) {

hooks[entryPoint].pop();

}

/**
 * Public method to remove all DOMPurify hooks
 * @return void
 */

DOMPurify.removeHooks = function () {

if (hooks) {

hooks = {};

}

/**
 * Public method to remove all DOMPurify hooks
 * @return void
 */

DOMPurify.removeAllHooks = function () {

hooks = {};

}

return DOMPurify;
}

var purify = createDOMPurify();

return purify;

})

Open Source Used In SDWan 20.6.1

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return function (Constructor, protoProps, staticProps) {
    if (protoProps)
        defineProperties(Constructor.prototype, protoProps);
    if (staticProps)
        defineProperties(Constructor, staticProps);
    return Constructor;
};

var _interopRequireDefault = require('react');

var _lodash = require('lodash.debounce');

var _interopRequireDefault = function(obj) {
    return obj && obj.__esModule ? obj : {
        default: obj
    }
};

function _objectWithoutProperties(obj, keys) {
    var target = {};
    for (var i in obj) {
        if (keys.indexOf(i) >= 0) continue;
        if (!Object.prototype.hasOwnProperty.call(obj, i)) continue;
        target[i] = obj[i];
    }
    return target;
}

function _classCallCheck(instance, Constructor) {
    if (!(instance instanceof Constructor)) {
        throw new TypeError('Cannot call a class as a function');
    }
}

function _possibleConstructorReturn(self, call) {
    if (!self)
        throw new ReferenceError('this hasn’t been initialised - supertypes hasn’t been called yet');
    return call && (typeof call === 'object' || typeof call === 'function') ? call : self;
}

function _inherits(subClass, superClass) {
    if (typeof superClass !== 'function' && superClass !== null)
        throw new TypeError('Super expression must either be null or a function, not ' + typeof superClass);
    subClass.prototype = Object.create(superClass && superClass.prototype, { constructor: { value: subClass, enumerable: false, writable: true, configurable: true } });
    if (superClass)
        if (Object.setPrototypeOf)
            Object.setPrototypeOf(subClass, superClass);
        else{
            subClass.__proto__ = superClass;
        }
}

var DebounceInput = exports.DebounceInput = function (_React$PureComponent) {
    _inherits(DebounceInput, _React$PureComponent);

    function DebounceInput(props) {
        _classCallCheck(this, DebounceInput);

        var _this = _possibleConstructorReturn(this, (DebounceInput.__proto__ || Object.getPrototypeOf(DebounceInput)).call(this, props));

        _this.onChange = function (event) {
            event.persist();
            var oldValue = _this.state.value;
            _this.setState({ value: event.target.value }, function () {
                var value = _this.state.value;

                if (value.length >= _this.props.minLength) {
                    _this.notify(event);
                    return;
                }

                // If user hits backspace and goes below minLength consider it cleaning the value
                if (oldValue.length > value.length) {
                    _this.notify(_extends({}, event, { target: _extends({}, event.target, { value: '' }) }));
                }
            });
        };

        _this.onKeyDown = function (event) {
            var onKeyDown = _this.props.onKeyDown;

            if (event.key === 'Enter') {
                _this.forceNotify(event);
            }

            if (onKeyDown) {
                onKeyDown(event);
            }
        };

        _this.onBlur = function (event) {
            var onBlur = _this.props.onBlur;

            _this.forceNotify(event);

            if (onBlur) {
                onBlur(event);
            }
        };

        _this.createNotifier = function (debounceTimeout) {
            if (debounceTimeout < 0) {
                _this.notify = function () {
                    return null;
                };
            } else if (debounceTimeout === 0) {
                _this.notify = _this.doNotify;
            } else {
                var debouncedChangeFunc = (0, _lodash)(function (event) {
                    _this.isDebouncing = false;
                    _this.doNotify(event);
                }, debounceTimeout);

                _this.notify = function (event) {
                    _this.isDebouncing = true;
                    debouncedChangeFunc(event);
                };

                _this.flush = function () {
                    return debouncedChangeFunc.flush();
                };

                _this.cancel = function () {
                    _this.isDebouncing = false;
                    debouncedChangeFunc.cancel();
                };

                _this.doNotify = function (event) {
                    _this.isDebouncing = true;
                    debouncedChangeFunc(event);
                };
            }
        };

        _this.doNotify = function (event) {
            var onChange = _this.props.onChange;
            onChange.apply(undefined, arguments);
            _this.forceNotify = function (event) {
                if (!this.isDebouncing) {
                    return;
                }

                _this.isDebouncing = false;
                _this.doNotify(event);
            };
        };

        _this.forceNotify = function () {
            _this.notify(event);
        };

        _this.notify = _this.doNotify;

        _this.state = {
            value: props.value || ''
        };

        _this.isDebouncing = false;
        return _this;
    }

    _createClass(DebounceInput, [{
        key: 'componentWillMount',
        value: function () {
            _this.createNotifier(this.props.debounceTimeout);
        }
    }, {
        key: 'componentWillReceiveProps',
        value: function (prevState) {
            var value = prevState.value,
                debounceTimeout = prevState.debounceTimeout;

            if (_this.isDebouncing) {
                return;
            }

            if (typeof value !== 'undefined' &&
                _this.state.value !== value) {
                _this.setState({ value: value });
            }

            if (debounceTimeout !== _this.props.debounceTimeout) {
                _this.createNotifier(debounceTimeout);
            }
        }
    }, {
        key: 'componentWillUnmount',
        value: function () {
            return;
        }
    }]);

    return function (Constructor, protoProps, staticProps) {
        if (protoProps)
            defineProperties(Constructor.prototype, protoProps);
        if (staticProps)
            defineProperties(Constructor, staticProps);
        return Constructor;
    }();

    var _react = require('react');

    var _react2 = _interopRequireDefault(_react);

    var _lodash = require('lodash.debounce');

    var _interopRequireDefault = function(obj) {
        return obj && obj.__esModule ? obj : {
            default: obj
        }
    }();
```javascript

var maybeOnKeyDown = void 0;
if (forceNotifyByEnter) {
  maybeOnKeyDown = { onKeyDown: this.onKeyDown };
} else if (onKeyDown) {
  maybeOnKeyDown = { onKeyDown: onKeyDown };
} else {
  maybeOnKeyDown = {};
}

var maybeOnBlur = void 0;
if (forceNotifyOnBlur) {
  maybeOnBlur = { onBlur: this.onBlur };
} else if (onBlur) {
  maybeOnBlur = { onBlur: onBlur };
} else {
  maybeOnBlur = {};
}

var maybeRef = inputRef ? { ref: inputRef } : {};

return _react2.default.createElement(element, _extends({}, props, {
  onChange: this.onChange,
  value: this.state.value
}, maybeOnKeyDown, maybeOnBlur, maybeRef));
}

DebounceInput.defaultProps = {
  element: 'input',
  type: 'text',
  value: undefined,
  onChange: this.onChange,
  onBlur: undefined,
  minLength: 0,
  debounceTimeout: 100,
  forceNotifyByEnter: true,
  forceNotifyOnBlur: true,
  inputRef: undefined
};

}```
timeout.

* `timeout` must have a timeout of 0.

* `timeout` is disabled until the next tick, similar to `setTimeout`.

* `debounce` and `throttle` are used in different scenarios.

* `timeout` is used when the function needs to be deferred until the next tick, similar to `setTimeout` with a timeout of 0.

* `debounce` and `throttle` are used in scenarios where the function needs to be invoked after a delay, but with different behaviors.

* `debounce` defers the function invocation until the next tick, similar to `setTimeout` with a timeout of 0.

* `throttle` limits the number of invocations to a maximum per interval, deeming `debounce` as a tool for avoiding costly calculations while the window size is flux.

* `debounce` is used when the function needs to be invoked after a delay, similar to `setTimeout` with a timeout of 0.

* `debounce` ensures that the function is invoked only once after 1 second of debounced calls.

* `debounce` cancels the trailing edge of the timeout.

* `debounce` returns the last debounced function.

* `debounce` is used in scenarios where the function needs to be invoked after a delay, but with different behaviors.

* `debounce` defers the function invocation until the next tick, similar to `setTimeout` with a timeout of 0.

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* `debounce` returns the last debounced function.

* `debounce` is used in scenarios where the function needs to be invoked after a delay, but with different behaviors.
```javascript
// Checks if `value` is object-like. A value is object-like if it's not `null` in * and has a `typeof` result of `"object"` in *
* in * @static in * @memberOf _ in * @since 4.0.0 in * @category Lang in * @param {*} value The value to check.
* @returns {boolean} Returns `true` if `value` is object-like, else `false`.
* @example

* _.isObjectLike({});
* // => true
* _.isObjectLike([1, 2, 3]);
* // => true
* _.isObjectLike(_.noop);
* // => false
* _.isObjectLike(null);
* // => false
```
webpackContext(req) { return __webpack_require__(webpackContextResolve(req)); }

function webpackContextResolve(req) { 
    var id = map[req];
    util!(id + 1) // check for number or string
    throw new Error("Cannot find module \\
                    " + req + "");
    return id;
}

webpackContext.keys = function webpackContextKeys() { 
    return Object.keys(map);
}

webpackContext.resolve = webpackContextResolve;

module.exports = webpackContext;

webpackContext.id = 1072;

//
// WEBPACK FOOTER
// ./src/core/plugins \jsx?$\n// module id = 1072\n// module chunks = 0"
"sourceRoot":"

Found in path(s):
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources-jar/swagger-
static/swagger-ui-bundle.js.map
No license file was found, but licenses were detected in source scan.

/*!
 * Copyright (c) 2016 Jed Watson.
 * Licensed under the MIT License (MIT), see
 * http://jedwatson.github.io/classnames
 */

/*!
 * @description Recursive object extending
 * @author Viacheslav Lotsmanov <lotsmanov89@gmail.com>
 * @license MIT
 *
 * The MIT License (MIT)
 *
 * Copyright (c) 2013-2018 Viacheslav Lotsmanov
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy of
 * this software and associated documentation files (the "Software"), to deal in
 * the Software without restriction, including without limitation the rights to
 * use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
 * the Software, and to permit persons to whom the Software is furnished to do so,
 * subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included in all
 * copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
 * FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
 * COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
 * IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
 * CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */
/*!
 * https://github.com/Starcounter-Jack/JSON-Patch
 * (c) 2017 Joachim Wester
 * MIT license
 */
/*!
* cookie
* Copyright(c) 2012-2014 Roman Shtylman
* Copyright(c) 2015 Douglas Christopher Wilson
* MIT Licensed
*/
/*!
* repeat-string <https://github.com/jonschlinkert/repeat-string>
*
* Copyright (c) 2014-2015, Jon Schlinkert.
* Licensed under the MIT License.
*/
/*!
* Autolinker.js
* 0.15.3
* 
* Copyright(c) 2015 Gregory Jacobs <greg@greg-jacobs.com>
* 
* https://github.com/gregjacobs/Autolinker.js
*/

Found in path(s):
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources-jar/swagger-
static/swagger-ui-bundle.js
No license file was found, but licenses were detected in source scan.

/*! normalize.css v7.0.0 | MIT License | github.com/necolas/normalize.css */

html { line-height: 1.15; -ms-text-size-adjust: 100%; -webkit-text-size-adjust: 100% } 
body { margin: 0 } 
article, aside, footer, header, nav, section { display: block } 
h1 { font-size: 2em; margin: .67em 0 } 
figure, hr, figure, h1, hr { -webkit-box-sizing: content-box; box-sizing: content-box } 
figure { margin: 1em 40px }
Open Source Used In SDWan 20.6.1  21717
/*
 * Copyright © 2014 Federico Recio (N/A)
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

No license file was found, but licenses were detected in source scan.
Found in path(s):
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources.jar/io/federecio/dropwizard/sample/SampleResource.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources.jar/io/federecio/dropwizard/sample/OAuth2Resource.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources.jar/io/federecio/dropwizard/sample/SampleApplication.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources.jar/io/federecio/dropwizard/sample/Saying.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources.jar/io/federecio/dropwizard/sample/SampleBasicAuthenticator.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources.jar/io/federecio/dropwizard/sample/SampleConfiguration.java
* /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources.jar/io/federecio/dropwizard/sample/Sayings.java
No license file was found, but licenses were detected in source scan.
Open Source Used In SDWan 20.6.1  21743
Open Source Used in SD Wan 20.6.1
Open Source Used In SDWan 20.6.1

D,MA2BAopD,SAfA,SAAA3jE,GACA,IACA4jE,GACAC,KAAX,IAAC,E,KAAX,KAIA,WAFA,MAAX9jE,EAA
A,UAAXA,EAAA,GAAA,GAAAAs+jE,UAAXA,GAAAs+jE,EAAXA,UAAXA,KAAXA,E,KAAXA,WAFA,MAAXG,E
ACA,OAAXAopD,EAAXApD,OAAXA2E,EAAXA,AAAXA,GAAAXA,KEAXA,OAAXA,MAAXA,B,c,OAAXA,42D,G
ACAH8D,EAAXA2gE,EAAXA,KAAKX,KAAXA,EAAXA,GAAAXA,KAAKX,AHAAXA,EAAXA,HAAAXA,AAKH
A,KAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
KAAAXA,WAFA,MAAXA,WDAA,KAAAXA,EAAXA,GAAAXA,KEAXA,OAAXA,AAAXA,AAAXA,GAAAXA,KEAXA,
Open Source Used in SD-WAN
1) {\n   throw new YAMLException('Unknown option \"' + name + '\" is met in definition of \"' + tag + ' + '\" YAML type.');}\n } // TODO: Add tag format check.\n this.tag = tag;\n this.kind = options[\'kind\'] || null;\n this.resolve = options[\'resolve\'];\n function () { return true; };\n this.construct = options[\'construct\'];\n function (data) { return data; };\n this.instanceOf = options[\'instanceOf\'] || null;\n this.predicate = options[\'predicate\'];\n null;\n this.defaultStyle = options[\'defaultStyle\'] || null;\n this.styleAliases = compileStyleAliases(options[\'styleAliases\'] || null);\n if (YAML_NODE_KINDS.indexOf(this.kind) === -1) {\n   throw new YAMLException('Unknown kind \"' + this.kind + '\" is specified for \"' + tag + ' + '\" YAML type.');\n }\n}\n
module.exports = Type;
```javascript

$export.U = 64; // safe
$export.R = 128; // real proto method for `library`
module.exports = $export;

```
ACTION OF CONTRACT, TORT OR VAL// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n// a duplex stream is just a stream that is both readable and writable.\n// Since JS doesn’t have multiple prototypal inheritance, this class\n// prototypically inherits from Readable, and then parasitically from\n// Writable.\n
use strict;\n
/*<replacement>*/
var pna = require('process-nextick-args');\n/*</replacement>*/

/*<replacement>*/
var objectKeys = Object.keys || function (obj) {\n var keys = [];
 for (var key in obj) \n keys.push(key);
 return keys;\n};\n/*</replacement>*/

module.exports = Duplex;

/*<replacement>*/
var util = require('core-util-is');
util.inherits = require('inherits');\n/*</replacement>*/

var Readable = require('./_stream_readable');\nvar Writable = require('./_stream_writable');\n
util.inherits(Duplex, Readable);

{
  // avoid scope creep, the keys array can then be collected\n  var keys = objectKeys(Writable.prototype);
  for (var v = 0; v < keys.length; v++) {\n    var method = keys[v];\n    if (!Duplex.prototype[method]) Duplex.prototype[method] = Writable.prototype[method];\n  }
}

function Duplex(options) {\n  if (!(this instanceof Duplex)) return new Duplex(options);

  Readable.call(this, options);
  Writable.call(this, options);

  if (options && options.readable === false) this.readable = false;

  if (options && options.writable === false) this.writable = false;

  this.allowHalfOpen = true;
  if (options && options.allowHalfOpen === false) this.allowHalfOpen = false;

  this.once('end', onend);
}

Object.defineProperty(Duplex.prototype, 'writableHighWaterMark', {\n  enumerable: false,
  get: function () {\n    return this._writableState.highWaterMark;
  }
});

// the no-half-open enforcer\nfunction onend() {\n  if (this.allowHalfOpen || this._writableState.ended) return;

  if (this.readableState === undefined || this.writableState === undefined) {\n    return;
  }

  // we ignore the value if the stream\n  // has not been initialized yet\n  if (this._readableState === undefined || this._writableState === undefined) {\n    return false;
  }

  // backward compatibility, the user is explicitly\n  // managing destroyed\n  this._readableState.destroyed && this._writableState.destroyed;
}

module.exports = function (val) {\n  return (val !== undefined) && (val !== null);
};

module.exports = function (value) {\n  return Math.max(0, toInteger(value));
};

module.exports = function (it) {\n  if (!isObject(it)) throw TypeError(it + ' is not an object!');
  return it;
};

module.exports = function (it) {\n  return typeof it === 'object' ? it !== null : typeof it === 'function';
};

var _undefined = require("../function/noop")(); // Support ES3 engines\n
module.exports = function (obj) {\n  return (obj.var keys = [];\n  for (var key in obj) \n  keys.push(key);
  return keys;\n};\n}

module.exports = function (val) {\n  return (val !== undefined) && (val !== null);
};\n
module.exports = function (value) {\n  return Math.max(0, toInteger(value));
};\n
module.exports = function (it) {\n  if (!isObject(it)) throw TypeError(it + ' is not an object!');
  return it;
};

module.exports = function (it) {\n  return typeof it === 'object' ? it !== null : typeof it === 'function';
};
Open Source Used In SDWan 20.6.1

```javascript
var _Object蹼Reference = require('object-reference');

var ReactCurrentOwner = require('./ReactCurrentOwner');

var warning = require('fbjs/lib/warning');
var canDefineProperty = require('./canDefineProperty');
var hasOwnProperty = Object.prototype.hasOwnProperty;

var REACT_ELEMENT_TYPE = require('./ReactElementSymbol');

var RESERVED_PROPS = {'key': true, 'ref': true, '__self': true, '__source': true};

var specialPropKeyWarningShown, specialPropRefWarningShown;

function hasValidRef(config) {
  if (process.env.NODE_ENV !== 'production') {
    if (hasOwnProperty.call(config, 'ref')) {
      var getter = Object.getOwnPropertyDescriptor(config, 'ref').get;
      if (getter && getter.isReactWarning) {
        return false;
      }
    }
  }
  return config.ref !== undefined;
}

function hasValidKey(config) {
  if (process.env.NODE_ENV !== 'production') {
    if (hasOwnProperty.call(config, 'key')) {
      var getter = Object.getOwnPropertyDescriptor(config, 'key').get;
      if (getter && getter.isReactWarning) {
        return false;
      }
    }
  }
  return config.key !== undefined;
}

function defineKeyPropWarningGetter(props, displayName) {
  var warnAboutAccessingKey = function () {
    if (!specialPropKeyWarningShown) {
      specialPropKeyWarningShown = true;
      process.env.NODE_ENV !== 'production' ? warning(false, `%s: ` + 'trying to access the same `value` within the child component, you should pass it as a different `prop`. (https://fb.me/react-special-props)', displayName) : void 0;
    }
  };
  warnAboutAccessingKey.isReactWarning = true;
  Object.defineProperty(props, 'key', {get: warnAboutAccessingKey, configurable: true});
}

function defineRefPropWarningGetter(props, displayName) {
  var warnAboutAccessingRef = function () {
    if (!specialPropRefWarningShown) {
      specialPropRefWarningShown = true;
      process.env.NODE_ENV !== 'production' ? warning(false, `%s: ` + 'value within the child component, you should pass it as a different `prop`. (https://fb.me/react-special-props)', displayName) : void 0;
    }
  };
  warnAboutAccessingRef.isReactWarning = true;
  Object.defineProperty(props, 'ref', {get: warnAboutAccessingRef, configurable: true});
}

/**
 * Factory method to create a new React element. This no longer adheres to
 * the class pattern, so do not use new to call it. Instead test $Typeof field against
 * Symbol.for('react.element') to check if something is a ReactElement.
 * Factory method to create a new React element. This no longer adheres to
 * the class pattern, so do not use new to call it. Instead test $Typeof field against
 * Symbol.for('react.element') to check if something is a ReactElement.
 */

function createElement(type, props, children) {
  var element = {'type': type};
  if (process.env.NODE_ENV !== 'production') {
    if (hasValidRef(props)) {
      element['ref'] = props.ref;
    }
    if (hasValidKey(props)) {
      element['key'] = props.key;
    }
  }
  element['props'] = props;
  element['children'] = children;
  return element;
}
```
filename, line number, and/or other information. * @param {*} owner * @param {*} props * @internal

```javascript
var ReactElement = function (type, key, ref, self, source, owner, props) { var element = { .. // This tag allow us to uniquely identify this as a React Element $typeof: REACT_ELEMENT_TYPE, .. // Built-in properties that belong on the element .. type: .. key: .. ref: .. props: .. $un = // Record the component responsible for creating this element. .. _owner: owner .. if (process.env.NODE_ENV !== 'production') { .. // The validation flag is currently mutative. We put it on .. // an external backing store so that we can freeze the whole object. .. // This can be replaced with a WeakMap once they are implemented in .. // commonly used development environments. .. element._store = {} .. // To make comparing ReactElements easier for testing purposes, we make .. // the validation flag non-enumerable (where possible, which should .. // include every environment we run tests in), so the test framework .. // ignores it. .. if (canDefineProperty) { .. Object.defineProperty(element._store, 'validated', { .. configurable: false, .. enumerable: false, .. writable: true, .. value: false }) .. } .. // self and source are DEV only properties. .. Object.defineProperty(element, '_self', { .. configurable: false, .. enumerable: false, .. writable: false, .. value: self }) .. } .. // Two elements created in different places should be considered .. // equal for testing purposes and therefore we hide it from enumeration. .. Object.defineProperty(element, '_source', { .. configurable: false, .. enumerable: false, .. writable: false, .. value: source }) .. } .. if (process.env.NODE_ENV !== 'production') { .. if (Object.freeze) { .. Object.freeze(element.props); .. Object.freeze(element); .. } }

return element;
};

/**
 * Create and return a new ReactElement of the given type. * See https://facebook.github.io/react/docs/top-level-api.html#react.createElement */
ReactElement.createElement = function (type, config, children) {
  var propName;

  // Reserved names are extracted
  var props = {};

  var key = null;
  var ref = null;
  var self = null;
  var source = null;

  if (config != null) {
    if (hasValidRef(config)) {
      ref = config.ref;
    }
    if (hasValidKey(config)) {
      key = '' + config.key;
    }

    self = config.__self === undefined ? null : config.__self;
    source = config.__source === undefined ? null : config.__source;
    // Remaining properties are added to a new props object
    for (propName in config) {
      if (hasOwnProperty.call(config, propName) && !RESERVED_PROPS.hasOwnProperty(propName)) {
        props[propName] = config[propName];
      }
    }

    // Children can be more than one argument, and those
    // are transferred onto
    // the newly allocated props object.
    var childrenLength = arguments.length - 2;
    if (childrenLength === 1) {
      props.children = children;
    } else if (childrenLength > 1) {
      var childArray = Array(childrenLength);
      for (var i = 0; i < childrenLength; i++) { childArray[i] = arguments[i + 2]; }

      if (process.env.NODE_ENV !== 'production') { if (Object.freeze) { Object.freeze(childArray); } }

      props.children = childArray;
    } else if (process.env.NODE_ENV !== 'production') { // Resolve default props if (type && defaultProps) { var defaultProps = type.defaultProps;
      for (propName in defaultProps) {
        if (props[propName] === undefined) {
          props[propName] = defaultProps[propName];
        }
      }
    }

    if (process.env.NODE_ENV !== 'production') { // 'Unknown' type
      if (key) {
        defineKeyPropWarningGetter(props, displayName);
      }
    }

    return ReactElement(type, key, ref, self, source, ReactCurrentOwner.current, props);
  }

  // Unknown type
  if (typeof $typeof === 'undefined' || $typeof !== REACT_ELEMENT_TYPE) { 
    // Expose the type on the factory so that it can be
    // easily accessed on elements. E.g. '<Foo type='type' />.type === 'Foo'. .. // This should not be named 'constructor' since this may not be the function .. // that created the element, and it may not even be a constructor. .. // Legacy hook
    TODO: Warn if this is accessed .. // factory.type = type .. return factory;
  }

  return ReactElement.cloneAndReplaceKey = function (oldElement, newKey) { .. newElement = ReactElement(oldElement.type, newKey, oldElement.ref, oldElement.self, oldElement.source, oldElement.owner, oldElement.props); .. return newElement;
};

/* Clone and return a new ReactElement using element as the starting point. * See
https://facebook.github.io/react/docs/top-level-api.html#react.cloneelement

```javascript
function (element, config, children) {
  var propName;

  // Original props are copied
  var props = _assign({}, element.props);

  // Remaining properties are extracted
  var key = element.key;
  var ref = element.ref;

  // Self is preserved since the owner is preserved.
  var self = element._self;

  // Source is preserved since cloneElement is unlikely to be targeted by a
  // transpiler, and the original source is probably a better indicator of the
  // true owner.
  var source = element._source;

  // Owner will be preserved, unless ref is overridden
  var owner = element._owner;

  // If (config !== null) {
    // Silently steal the ref from the parent
    ref = config.ref;
    owner = ReactCurrentOwner.current;
  } if (hasValidKey(config)) {
    key = "" + config.key;
  }

  // Remaining properties override existing props
  var defaultProps = (element.type && element.type.defaultProps) || {};
  var props = _assign({}, config, defaultProps);

  // Children can be more than one argument, and those are transferred onto
  // the newly allocated props object

  for (propName in config) {
    if (hasOwnProperty.call(config, propName) &&
        !RESERVED_PROPS.hasOwnProperty(propName)) {
      if (config[propName] === undefined &&
          defaultProps !== undefined) {
        // Resolve default props
        props[propName] = defaultProps[propName];
      } else {
        props[propName] = config[propName];
      }
    }
  }

  if (config[propName] !== undefined) {
    // Children can be more than one argument, and those are transferred onto
    // the newly allocated props object.

    var childrenLength = arguments.length - 2;
    if (childrenLength === 1) {
      props.children = children;
    } else if (childrenLength > 1) {
      var childArray = Array(childrenLength);
      for (var i = 0; i < childrenLength; i++) {
        childArray[i] = arguments[i + 2];
      }
      props.children = childArray;
    }

    return ReactElement(element.type, key, ref, self, source, owner, props);
  }

  return ReactElement(element.type, key, ref, self, source, owner, props);
}
```

**isValidElement**

```
function isValidElement(object) {
  return typeof object === 'object' && object !== null && object.$$typeof ===
  REACT_ELEMENT_TYPE;
}
```

```javascript
module.exports = getNative;
```

---

```
// shim for using process in browser
var process = module.exports = {};

// cached from whatever global is present so that test runners that
// stub it // don't break things. But we need to wrap it in a try catch in case it is
// wrapped in strict mode code which doesn't define any globals. It's inside a
// function because try/catches deoptimize in certain engines.

var cachedSetTimeout;
var cachedClearTimeout;

function defaultSetTimout() {
    throw new Error('setTimeout has not been defined');
}
function defaultClearTimeout () {
    throw new Error('clearTimeout has not been defined');
}
(function () {
    try {
        if (typeof setTimeout === 'function') {
            cachedSetTimeout = setTimeout;
        } else {
            cachedSetTimeout = defaultSetTimout;
        }
    } catch (e) {
        if (cachedSetTimeout === defaultSetTimout) {
            cachedSetTimeout = function () {
                throw new Error('setTimeout has not been defined');
            };
        } else {
            cachedSetTimeout = defaultSetTimout;
        }
    }

    try {
        if (typeof clearTimeout === 'function') {
            cachedClearTimeout = clearTimeout;
        } else {
            cachedClearTimeout = defaultClearTimeout;
        }
    } catch (e) {
        if (cachedClearTimeout === defaultClearTimeout) {
            cachedClearTimeout = function () {
                throw new Error('clearTimeout has not been defined');
            };
        } else {
            cachedClearTimeout = defaultClearTimeout;
        }
    }

    if (cachedSetTimeout !== setTimeout) {
        if (cachedClearTimeout !== clearTimeout) {
            return;
        }
    }

    function runTimeout(fun) {
        try {
            return cachedSetTimeout(fun, 0);
        } catch (e) {
            if (cachedSetTimeout === setTimeout) {
                try {
                    return setTimeout(fun, 0);
                } catch (e) {
                    if (fun !== null) {
                        return setTimeout(fun, 0);
                    }
                }
            }

            try {
                return clearTimeout(fun);
            } catch (e) {
                if (fun !== null) {
                    return clearTimeout(fun);
                }
            }
            return fun();
        }
    }

    // this module is not intended to be consumed
    // by third parties

    module.exports = function () {
        var timeout = runTimeout.bind(null, timeout);
        return timeout;
    };
```

---

```
!

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```
function runClearTimeout(marker) {
    if (cachedClearTimeout === clearTimeout) {
        try {
            // when when somebody has screwed with setTimeout but no I.E. madness
            return cachedClearTimeout(marker);
        } catch (e) {
            // When we are in I.E. but the script has been evaluated so I.E. doesn't
            // trust the global object when called normally
            return cachedClearTimeout.call(null, marker);
        } catch (e) {
            // same as above but when it's a version of I.E. that must have the global object
            // for 'this', hopefully our context correct otherwise it will throw a global error.
            // Some versions of I.E. have different rules for clearTimeout vs setTimeout
            return cachedClearTimeout.call(this, marker);
        }
    }
    var queue = [];
    var draining = false;
    var currentQueue;
    var queueIndex = -1;

    function cleanUpNextTick() {
        if (!draining || !currentQueue) {
            return;
        }
        draining = false;
        if (currentQueue.length) {
            queue = currentQueue.concat(queue);
        } else {
            queueIndex = -1;
        }
        var timeout = runTimeout(cleanUpNextTick);
        draining = true;
        var len = queue.length;
        while (len) {
            currentQueue = queue;
            queue = [];
            while (++queueIndex < len) {
                if (currentQueue) {
                    currentQueue[queueIndex].run();
                }
            }
            queueIndex = -1;
            len = queue.length;
        }
        currentQueue = null;
        draining = false;
        runClearTimeout(timeout);
    }
    var args = new Array(arguments.length - 1);
    if (arguments.length > 1) {
        for (var i = 1; i < arguments.length; i++) {
            args[i - 1] = arguments[i];
        }
    }
    queue.push(new Item(fun, args));
    if (queue.length === 1 && !draining) {
        runTimeout(drainQueue);
    }
}

// v8 likes predictable objects
function Item(fun, array) {
    this.fun = fun;
    this.array = array;
}
Item.prototype.run = function () {
    this.fun.apply(null, this.array);
};

process.title = 'browser';
process.browser = true;
process.env = {};
process.argv = [];
process.version = ''; // empty string to avoid regexp issues
process.versions = {};

function noop() {}

process.on = noop;
process.addListener = noop;
process.once = noop;
process.off = noop;
process.removeListener = noop;
process.removeAllListeners = noop;
process.emit = noop;
process.prependListener = noop;
process.prependOnceListener = noop;

process.listeners = function (name) { return [] }

process.binding = function (name) {
    throw new Error('process.binding is not supported');
};

process.cwd = function () { return '/' };
process.chdir = function (dir) {
    throw new Error('process.chdir is not supported');
};
process.umask = function() { return 0; }

using Object.create is 'function'

if (typeof Object.create === 'function') {
  // implementation from standard node.js 'util' module
  module.exports = function inherits(ctor, superCtor) {
    ctor.super_ = superCtor
    ctor.prototype = Object.create(superCtor.prototype, {
      constructor: {
        value: ctor,
        enumerable: false,
        writable: true,
        configurable: true
      }
    });
  }
} else {
  // old school shim for old browsers
  module.exports = function inherits(ctor, superCtor) {
    ctor.super_ = superCtor
    var TempCtor = function () {}
    TempCtor.prototype = superCtor.prototype;
    ctor.constructor = TempCtor;
    ctor.prototype.constructor = superCtor;
    ctor.prototype = new TempCtor();
    1
    return new superCtor.apply(this, array);}

    return (typeof subject === 'undefined') || (subject === null);
}

function extend(target, source) {
  var index,
      length, key, sourceKeys;

  if (source) {
    sourceKeys = Object.keys(source);

    for (index = 0, length = sourceKeys.length; index < length; index += 1) {
      key = sourceKeys[index];
      target[key] = source[key];
    }
  }

  return target;
}

function repeat(string, count) {
count; cycle += 1) {
    result += string;
    result += 
}

  return result;
}


function isNegativeZero(number) {
  return number === 0 && Number.NEGATIVE_INFINITY === 1 / number;
}


module.exports.isNothing = isNothing;
module.exports.isObject = isObject;
module.exports.toArray = toArray;
module.exports.repeat = repeat;
module.exports.isNegativeZero = isNegativeZero;
module.exports.extend = extend;


//////////////////
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/common.js

var common = require('./common');


function compileList(schema, name, result) {
  var exclude = [];

  schema.include.forEach(function (includedSchema) {
    result = compileList(includedSchema, name, result);
  });

  schema[name].forEach(function (currentType, index) {
    result.forEach(function (previousType, previousIndex) {
      if (previousType.tag === currentType.tag && previousType.kind === currentType.kind) {
        exclude.push(previousIndex);
      }
    });

    result.push(currentType);
  });

  return result.filter(function (type, index) {
    return exclude.indexOf(index) === -1;
  });
}


function compileMap(/* lists... */) {
  var result = {
    scalar: {},
    sequence: {},
    mapping: {},
    fallback: {}
  }, index, length;

  function collectType(type) {
    result[type.kind][type.tag] = result['fallback'][type.tag] = type;
  }

  for (index = 0, length = arguments.length; index < length; index += 1) {
    arguments[index].forEach(collectType);
  }

  return result;
}


function Schema(definition) {
  this.include = definition.include || [];
  this.implicit = definition.implicit || [];
  this.explicit = definition.explicit || [];

  this.implicit.forEach(function (type) {
    if (type.loadKind && type.loadKind !== 'scalar') {
      throw new YAMLException('There is a non-scalar type in the implicit list of a schema. Implicit resolving of such types is not supported.');
    }
  });

  this.compiledImplicit = compileList(this, 'implicit', []);
  this.compiledExplicit = compileList(this, 'explicit', []);
  this.compiledTypeMap = compileMap(this.compiledImplicit, this.compiledExplicit);
}


Schema.DEFAULT = null;


Schema.create = function createSchema() {
  var schemas, types;

  switch (arguments.length) {
    case 1:
      schemas = Schema.DEFAULT;
      types = arguments[0];
      break;
    case 2:
      schemas = arguments[0];
      types = arguments[1];
      break;
    default:
      throw new YAMLException('Wrong number of arguments for Schema.create function');
  }

  schemas = common.toArray(schemas);
  types = common.toArray(types);

  if (!schemas.every(function (schema) { return schema instanceof Schema; })) {
    throw new YAMLException('Specified list of super schemas (or a single Schema object) contains a non-Schema object.');
  }

  if (!types.every(function (type) { return type instanceof Type; })) {
    throw new YAMLException('Specified list of YAML types (or a single Type object) contains a non-Type object.');
  }

  return new Schema({
    include: schemas,
    explicit: types
  });
};


module.exports = Schema;


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_iterators.js

var $keys = require('./_object-keys-internal');
var enumBugKeys = require('./_enum-bug-keys');

module.exports = Object.keys || function keys(O) {
  return $keys(O, enumBugKeys);
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_object-keys.js

module.exports = function (it) {
  return toString.call(it).slice(8, -1);
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_cof.js

module.exports = !require('./_fails')(function () {
  return Object.defineProperty({}, 'a', { get: function () { return 7; } }).a != 7;
});


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_descriptors.js

module.exports = function (exec) {
  try {
    return !!exec();
  } catch (e) {
    return true;
  }
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_fails.js

module.exports = {};


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/modules/_iterators.js

var toInteger = require('./_to-integer');

module.exports = function (it) {
  return it > 0 ?

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* / \n
*/

/* eslint-disable no-proto */

'use strict'

var base64 = require('base64-js')
var ieee754 = require('ieee754')

var isArray = require('isarray')

exports.Buffer = Buffer
exports.SlowBuffer = SlowBuffer
exports.INSPECT_MAX_BYTES = 50

/**
 * If Buffer.TYPED_ARRAY_SUPPORT :
 */

/*
 * Export kMaxLength after
typed array support is determined.
*/

function createBuffer (that, length) {
  if (kMaxLength() < length) {
    throw new RangeError('Invalid typed array length')
  }
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    // Return an augmented `Uint8Array` instance, for best performance
    that = new Uint8Array(length)
    that.__proto__ = Buffer.prototype
  } else {
    // Fallback: Return an object instance of the Buffer class
    if (that === null) {
      that = new Buffer(length)
    }
    that.length = length
  }

  return that
}

/**
 * Functionally equivalent to Buffer(arg, encoding) but throws a TypeError
 * if value is a number.
 * Buffer.from(str[, encoding])
 * Buffer.from(array)
 * Buffer.from(buffer)
 */

Buffer.from = function (value, encodingOrOffset, length) {
  return from(null, value, encodingOrOffset, length)
}

if (Buffer.TYPED_ARRAY_SUPPORT) {

  Buffer.prototype.__proto__ = Uint8Array.prototype
  Buffer.__proto__ = Uint8Array
  if (typeof Symbol !== 'undefined' && Symbol.species &&
      Buffer[Symbol.species] === Buffer) {
    // Fix subarray() in ES2016.
    // See: https://github.com/feross/buffer/pull/97
    Object.defineProperty(Buffer, Symbol.species, {
      value: null,
      configurable: true
    })
  }
}

function assertSize (size) {
  if (typeof size !== 'number') {
    throw new TypeError('"size" argument must be a number')
  } else if (size < 0) {
    throw new RangeError('"size" argument must not be negative')
  }
}

function alloc (that, size, fill, encoding) {
  assertSize(size)
  if (size

<\= 0) \{ \n    return createBuffer(that, size) \} \n  \} if (fill !== undefined) \{ \n    // Only pay attention to encoding if it's a string. This prevents accidentally sending in a number that would be interpreted as a start offset. \n  return typeOf encoding === 'string' ? createBuffer(that, size).fill(fill, encoding) : createBuffer(that, size).fill(fill) \} \n  return createBuffer(that, size) \n} \n\n/**
 * Creates a new filled Buffer instance. \n * alloc(size[, fill, encoding])\n * \n * \n */
Buffer.alloc = function (size, fill, encoding) \{ \n  \n  return alloc(null, size, fill, encoding) \n}\n
\n/**
 * \n * \n */
Buffer.allocUnsafe = function (that, size) \{ \n  return allocUnsafe(null, size) \n}\n
\n/**
 * \n * \n */
Buffer.allocUnsafeSlow = function (size) \{ \n  return allocUnsafe(null, size) \n}\n
\n/**
 * \n * \n */
Buffer.concat = function concat

\nObject.prototype
\n/**
 * \n * \n */
Buffer.prototype

(buf, string, offset, length) { return blitBuffer(asciiToBytes(string), buf, offset, length); }  

function latin1Write(buf, string, offset, length) { return blitBuffer(asciiToBytes(string), buf, offset, length); }  

function base64Write(buf, string, offset, length) { return blitBuffer(base64ToBytes(string), buf, offset, length); }  

function ucs2Write(buf, string, offset, length) { return blitBuffer(utf16leToBytes(string, buf.length - offset), buf, offset, length); }  

Buffer.prototype.write = function write(string, offset, length, encoding) {  
  if (offset === undefined) {  
    encoding = 'utf8';  
    length = this.length;  
    offset = 0;  
  } else if (length === undefined) {  
    offset = 0;  
    length = string.length;  
    encoding = 'utf8';  
  }  
  if (isFinite(offset)) {  
    offset = Math.floor(offset);  
    if (isFinite(length)) {  
      length = Math.floor(length);  
      encoding = 'utf8';  
    } else {  
      encoding = length;  
      length = undefined;  
    }  
  } else {  
    throw new Error('Buffer.write(string, encoding, offset, length) is no longer supported');  
  }  
  var remaining = this.length - offset;  
  if (length === undefined || length > remaining) {  
    throw new RangeError('Attempt to write outside buffer bounds');  
  } else if (typeof offset === 'string') {  
    encoding = offset;  
    offset = 0;  
  }  
  switch (encoding) {  
    case 'hex':  
      return hexWrite(this, string, offset, length);  
    case 'utf8':  
      return utf8Write(this, string, offset, length);  
    case 'ascii':  
      return asciiWrite(this, string, offset, length);  
    case 'latin1':  
      return latin1Write(this, string, offset, length);  
    case 'base64':  
      return base64Write(this, string, offset, length);  
    case 'ucs2':  
      return ucs2Write(this, string, offset, length);  
    case 'utf16le':  
      return utf16Write(this, string, offset, length);  
    case 'utf16be':  
      return utf16Write(this, string, offset, length);  
    default:  
      throw new TypeError('Unknown encoding: ' + encoding);  
  }  
}  

Buffer.prototype.toJSON = function toJSON() {  
  return {  
    type: 'Buffer',  
    data: Array.prototype.slice.call(this._arr || this, 0)  
  };  
}

function base64Slice(buf, start, end) {  
  if (start === 0 && end === buf.length) {  
    return base64.fromByteArray(buf);  
  } else {  
    return base64.fromByteArray(buf.slice(start, end));  
  }  
}

function utf8Slice(buf, start, end) {  
  end = Math.min(buf.length, end);  
  var res = [];  
  var i = start;  
  while (i < end) {  
    var firstByte = buf[i];  
    var bytesPerSequence = (firstByte > 0xEF) ? 4  
      : (firstByte > 0xDF) ? 3  
      : (firstByte > 0xBF) ? 2  
      : 1;  
    var codePoint = 0;  
    if (i + bytesPerSequence <= end) {  
      var secondByte, thirdByte, fourthByte;  
      switch (bytesPerSequence) {  
        case 1:  
          codePoint = firstByte;  
          break;  
        case 2:  
          secondByte = buf[i + 1];  
          if ((secondByte & 0xC0) === 0x80) {  
            codePoint = (firstByte & 0x1F) << 0x6 | (secondByte & 0x3F);  
          }  
          break;  
        case 3:  
          secondByte = buf[i + 1];  
          thirdByte = buf[i + 2];  
          if ((secondByte & 0xC0) === 0x80 && (thirdByte & 0xC0) === 0x80) {  
            codePoint = (firstByte & 0xF) << 0xC | (secondByte & 0xF) << 0x6 | (thirdByte & 0xF);  
          }  
          break;  
        case 4:  
          secondByte = buf[i + 1];  
          thirdByte = buf[i + 2];  
          fourthByte = buf[i + 3];  
          if ((secondByte & 0xC0) === 0x80 && (thirdByte & 0xC0) === 0x80 && (fourthByte & 0xC0) === 0x80) {  
            codePoint = (firstByte & 0xF) << 0x12 | (secondByte & 0xF) << 0xC | (thirdByte & 0xF) << 0x6 | (fourthByte & 0xF);  
          }  
          break;  
      }  
    }  
    if (codePoint === 0) {  
      codePoint = 65535;  
    }  
    res.push(codePoint);  
    i += bytesPerSequence;  
  }  
  return decodeCodePointsArray(res);  
}

// Based on http://stackoverflow.com/a/22747272/680742, the browser with the lowest limit is Chrome, with 0x10000 args.  
// We go 1 magnitude less, for safety
var MAX_ARGUMENTS_LENGTH = 0x10000;  

function decodeCodePointsArray(codePoints) {  
  var len = codePoints.length;  
  if (len <=
MAX_ARGUMENTS_LENGTH) {function asciiSlice (buf, start, end) {var val = buf[start]; end = Math.min(buf.length, end); if (end > start) {
    var newBuf = new Buffer(end - start); for (var i = start; i < end; ++i) {
        newBuf[i] = buf[i];
    }
    return newBuf;
}

function latin1Slice (buf, start, end) {var val = buf[start]; end = Math.min(buf.length, end); for (var i = start; i < end; ++i) {
        val += buf[i];
    }
    return val;
}

function hexSlice (buf, start, end) {var bytes = buf.slice(start, end); var res = ''; for (var i = 0; i < bytes.length; i += 2) {
        res += String.fromCharCode(bytes[i] + bytes[i + 1] * 256);
    }
    return res;
}

Buffer.prototype.slice = function slice (start, end) {
    var len = this.length
    start = ~~start
    end = end === undefined ? len : ~~end
    if (start < 0) {
        start += len
        if (start < 0) start = 0
    } else if (start > len) {
        start = len
    }
    if (end < 0) {
        end += len
        if (end < 0) end = 0
    } else if (end > len) {
        end = len
    }
    if (end < start) end = start
    var newBuf;
    if (Buffer.TYPED_ARRAY_SUPPORT) {
        newBuf = this.subarray(start, end);
        newBuf.__proto__ = Buffer.prototype;
    } else {
        var sliceLen = end - start;
        newBuf = new Buffer(sliceLen, undefined);
        for (var i = 0; i < sliceLen; ++i) {
            newBuf[i] = this[i + start];
        }
    }
    return newBuf;
}

/*
 * Need to make sure that buffer isn't trying to write out of bounds.
*/
function checkOffset (offset, ext, length) {
    if ((offset % 1) !== 0 || offset < 0) throw new RangeError('offset is not uint')
    if (offset + ext > length) throw new RangeError('Trying to access beyond buffer length')
}

Buffer.prototype.readUIntLE = function readUIntLE (offset, byteLength, noAssert) {
    offset = offset | 0
    byteLength = byteLength | 0
    if (!noAssert) checkOffset(offset, byteLength, this.length)
    var val = this[offset]
    var mul = 1
    var i = 0
    while (++i < byteLength && (mul *= 0x100)) {
        val += this[offset + i] * mul
    }
    mul *= 0x80
    if (val >= mul) val -= Math.pow(2, 8 * byteLength)
    return val;
}

Buffer.prototype.readUIntBE = function readUIntBE (offset, byteLength, noAssert) {
    offset = offset | 0
    byteLength = byteLength | 0
    if (!noAssert) checkOffset(offset, byteLength, this.length)
    var i = byteLength
    var val = this[offset + --i]
    while (i > 0 && (mul *= 0x100)) {
        val += this[offset + --i] * mul
    }
    mul *= 0x80
    if (val >= mul) val -= Math.pow(2, 8 * byteLength)
    return val;
}

Buffer.prototype.readUInt8 = function readUInt8 (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 1, this.length)
    return this[offset];
}

Buffer.prototype.readUInt16LE = function readUInt16LE (offset, noAssert) {
    offset = offset | 0
    var val = this[offset] | (this[offset + 1] << 8)
    return (val & 0x8000) ? val | 0 : val;
}

Buffer.prototype.readUInt16BE = function readUInt16BE (offset, noAssert) {
    offset = offset | 0
    var val = this[offset + 1] | (this[offset] << 8)
    return (val & 0x8000) ? val | 0 : val;
}

Buffer.prototype.readUInt32LE = function readUInt32LE (offset, noAssert) {
    offset = offset | 0
    var val = this[offset] | (this[offset + 1] << 8) | (this[offset + 2] << 16) | (this[offset + 3] << 24)
    return (val & 0x80000000) ? val | 0 : val;
}

Buffer.prototype.readUInt32BE = function readUInt32BE (offset, noAssert) {
    offset = offset | 0
    var val = this[offset + 3] | (this[offset + 2] << 8) | (this[offset + 1] << 16) | (this[offset] << 24)
    return (val & 0x80000000) ? val | 0 : val;
}

Buffer.prototype.readIntLE = function readIntLE (offset, byteLength, noAssert) {
    offset = offset | 0
    byteLength = byteLength | 0
    if (!noAssert) checkOffset(offset, byteLength, this.length)
    var val = this[offset]
    var mul = 1
    var i = 0
    while (++i < byteLength && (mul *= 0x100)) {
        val += this[offset + i] * mul
    }
    mul *= 0x80
    if (val >= mul) val -= Math.pow(2, 8 * byteLength)
    return val;
}

Buffer.prototype.readIntBE = function readIntBE (offset, byteLength, noAssert) {
    offset = offset | 0
    byteLength = byteLength | 0
    if (!noAssert) checkOffset(offset, byteLength, this.length)
    var i = byteLength
    var val = this[offset + --i]
    while (i > 0 && (mul *= 0x100)) {
        val += this[offset + --i] * mul
    }
    mul *= 0x80
    if (val >= mul) val -= Math.pow(2, 8 * byteLength)
    return val;
}

Buffer.prototype.readInt8 = function readInt8 (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 1, this.length)
    return this[offset] * 0x10000000
}

Buffer.prototype.readInt16LE = function readInt16LE (offset, noAssert) {
    offset = offset | 0
    var val = this[offset] | (this[offset + 1] << 8)
    return (val & 0x8000) ? val | 0 : val;
}

Buffer.prototype.readInt16BE = function readInt16BE (offset, noAssert) {
    offset = offset | 0
    var val = this[offset + 1] | (this[offset] << 8)
    return (val & 0x8000) ? val | 0 : val;
}

Buffer.prototype.readInt32LE = function readInt32LE (offset, noAssert) {
    offset = offset | 0
    var val = this[offset] | (this[offset + 1] << 8) | (this[offset + 2] << 16) | (this[offset + 3] << 24)
    return (val & 0x80000000) ? val | 0 : val;
}

Buffer.prototype.readInt32BE = function readInt32BE (offset, noAssert) {
    offset = offset | 0
    var val = this[offset + 3] | (this[offset + 2] << 8) | (this[offset + 1] << 16) | (this[offset] << 24)
    return (val & 0x80000000) ? val | 0 : val;
Buffer.prototype.readInt16BE = function readInt16BE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 2, this.length)
  var val = this[offset + 1] |
  (this[offset] << 8)
  return (val & 0x8000) ? val |
  0xFFFF0000 : val
}

Buffer.prototype.readInt32LE = function readInt32LE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)
  return (this[offset] + 1 << 8) |
  (this[offset + 1] + 2 << 16)
  | (this[offset + 3] + 24) |
  return ieee754.read(this, offset, true, 23, 4) |
}

Buffer.prototype.readInt32BE = function readInt32BE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)
  return (this[offset] + 1 << 16) |
  (this[offset + 2] + 8) | (this[offset + 3] + 24) |
  return ieee754.read(this, offset, false, 23, 4) |
}

Buffer.prototype.readIntDoubleLE = function readIntDoubleLE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 8, this.length)
  return ieee754.read(this, offset, true, 52, 8) |
}

Buffer.prototype.readIntDoubleBE = function readIntDoubleBE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 8, this.length)
  return ieee754.read(this, offset, false, 52, 8) |
}

function checkInt (buf, value, offset, ext, max, min) {
  if (!Buffer.isBuffer(buf)) throw new TypeError('"buffer" argument must be a Buffer instance')
  if (value > max || value < min) throw new RangeError('"value" argument is out of bounds')
  if (offset + ext > buf.length) throw new RangeError('Index out of range')
}

Buffer.prototype.writeUIntLE = function writeUIntLE (value, offset, byteLength, noAssert) {
  value = +value
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) {
    var maxBytes = Math.pow(2, 8 * byteLength) - 1
    checkInt(buf, value, offset, byteLength, maxBytes, 0)
  }

  var i = 0
  while (++i < byteLength) {
    buf[offset + i] = (value & 0xff) |
    (value >>> (8 * (i - 1)))
  }

  return offset + byteLength
}

Buffer.prototype.writeUIntBE = function writeUIntBE (value, offset, byteLength, noAssert) {
  value = +value
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) {
    var maxBytes = Math.pow(2, 8 * byteLength) - 1
    checkInt(this, value, offset, byteLength, maxBytes, 0)
  }

  var i = byteLength - 1
  while (--i >= 0) {
    buf[offset + i] = (value & 0xff) |
    (value >>> (8 * (i - 1)))
  }

  return offset + byteLength
}

Buffer.prototype.writeUInt8 = function writeUInt8 (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(buf, value, offset, 1, 0xff, 0)

  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    return offset + 1
  } else {
    objectWriteUInt8(buf, value, offset, true)
  }
}

function objectWriteUInt16 (buf, value, offset, littleEndian) {
  if (value < 0) value = 0xffff + value + 1
  for (var i = 0, j = Math.min(buf.length - offset, 2); i < j; ++i) {
    buf[offset + i] = (value & (0xff << (littleEndian ? i : 3 - i) * 8)) >>>
    (littleEndian ? i : 3 - i) * 8
  }
}

Buffer.prototype.writeUInt16LE = function writeUInt16LE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(buf, this, value, offset, 1, 0xff, 0)

  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
  } else {
    objectWriteUInt16(buf, this, value, offset, true)
  }
}

Buffer.prototype.writeUInt16BE = function writeUInt16BE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 2, 0xff, 0)

  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
  } else {
    objectWriteUInt16(this, value, offset, true)
  }
}

Buffer.prototype.writeUInt32LE = function writeUInt32LE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(buf, this, value, offset, 4, 0xffff, 0)

  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xffff)
    this[offset + 1] = (value >>> 16)
  } else {
    objectWriteUInt32(buf, this, value, offset, true)
  }
}

Buffer.prototype.writeUInt32BE = function writeUInt32BE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 4, 0xffff, 0)

  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xffff)
    this[offset + 1] = (value >>> 16)
  } else {
    objectWriteUInt32(this, value, offset, true)
  }
}

Buffer.prototype.writeUIntDoubleLE = function writeUIntDoubleLE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(buf, this, value, offset, 8, 0)

  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
  } else {
    objectWriteUInt32(buf, this, value, offset, true)
  }
}

Buffer.prototype.writeUIntDoubleBE = function writeUIntDoubleBE (value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 8, 0)

  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
  } else {
    objectWriteUInt32(this, value, offset, true)
  }
}
256
byteArray.push(lo) // byteArray.push(hi)
} // return byteArray
}

function blitBuffer (src, dst, offset, length) {
  for (var i = 0; i < length; ++i) {
    if ((i + offset >= dst.length) || (i > src.length)) break
    dst[i + offset] = src[i]
  }
  return dst
}

function base64ToBytes (str) {
  return base64.toByteArray(base64clean(str))
}

function isnan (val) {
  return val !== val // eslint-disable-line no-self-compare
}

var root = require('./_root');

/** Built-in value references. */
var Symbol = root.Symbol;

module.exports = Symbol;

var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/**
 * Checks if `value` is classified as a `Symbol` primitive or object.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a symbol, else `false`.
 */
function isSymbol(value) {
  return typeof value == 'symbol' ||
    (isObjectLike(value) && baseGetTag(value) == symbolTag);
}

module.exports = isSymbol;

var nativeCreate = getNative(Object, 'create');

module.exports = nativeCreate;

/**
 * Creates an list cache object.
 * @private
 * @constructor
 * @param {Array} [entries] The key-value pairs to cache.
 */
function ListCache(entries) {
  var index = -1,
      length = entries == null ? 0 : entries.length;

  this.clear();
  while (++index < length) {
    var entry = entries[index];
    this.set(entry[0], entry[1]);
  }
}

// Add methods to `ListCache`.
ListCache.prototype.clear = listCacheClear;
ListCache.prototype['delete'] = listCacheDelete;
ListCache.prototype.get = listCacheGet;
ListCache.prototype.has = listCacheHas;
ListCache.prototype.set = listCacheSet;

module.exports = ListCache;

var isKeyable = require('./_isKeyable');

/**
 * Gets the data for `map`.
 * @private
 * @param {Object} map The map to query.
 * @param {string} key The reference key.
 * @returns {any} Returns the map data.
 */
function getMapData(map, key) {
  var data = map.__data__;
  return isKeyable(key)
    ? data['string']
    : data[key];
}

module.exports = getMapData;

var arrayLikeKeys = require('./arrayLikeKeys');
var baseKeys = require('./baseKeys');

require('./isArrayLike');

/**
 * Creates an array of the own enumerable property names of `object`.
 *
 *
 * **Note:** Non-object values are coerced to objects. See the
 * [ES spec](http://ecma-international.org/ecma-262/7.0/#sec-object.keys) for more details.
 *
 * @static
 * @since 0.1.0
 * @memberOf _
 * @category Object
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 * @example
 * _.keys({ a: 1, b: 2 });
 * // => ['a', 'b']
 */
function keys(object) {
  return isArrayLike(object) ? arrayLikeKeys(object) : baseKeys(object);
}

module.exports = keys;


{Object} [object] The object to query keys on.

@returns {boolean} Returns `true` if `value` is a property name, else `false`.

function isKey(value, object) {
  if (isArray(value)) {
    return false;
  }
  var type = typeof value;
  if (type == 'number' || type == 'symbol' || type == 'boolean' ||
      value == null || isSymbol(value)) {
    return true;
  }
  return isPlainProp.test(value) || isDeepProp.test(value) ||
    (object !== null && value in Object(object));
}

module.exports = isKey;


//////////////////
// WEBPACK FOOTER
// module id = 114
// module chunks = 0

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'use strict';

var R = typeof Reflect === 'object'?
  Reflect
  : null
var ReflectApply = R && typeof R.apply === 'function'
  ? R.apply
  : function
    ReflectApply(target, receiver, args) {
      return Function.prototype.apply.call(target, receiver, args);
    }

function ProcessEmitWarning(warning) {
  if (console && console.warn)
    console.warn(warning);
}

var NumberIsNaN = Number.isNaN || function NumberIsNaN(value) {
  return
    value !== value;
}

function EventEmitter() {
  EventEmitter.init.call(this);
}
module.exports = EventEmitter;

// Backwards-compat with node 0.10.x
EventEmitter.EventEmitter = EventEmitter;

EventEmitter.prototype._events = undefined;
EventEmitter.prototype._eventsCount = 0;
EventEmitter.prototype._maxListeners = undefined;

// By default EventEmitters will be limited to 10.
EventEmitter.prototype.getMaxListeners = function getMaxListeners() {
  return $getMaxListeners(this);
};

EventEmitter.prototype.emit = function emit(type) {
  var args = [];
  for (var i = 1; i < arguments.length; i++) args.push(arguments[i]);
  var doError = (type === 'error');

  var events = this._events;
  if (events !== undefined)
    doError = (doError && events.error === undefined);
  else if (!doError)
    return false;

  // If there is no 'error' event listener then throw.
  if (doError) {
    var er;
    if (args.length > 0)
      er = args[0];
    if (er instanceof Error)
      throw er;

    // Note: The comments on the 'throw' lines are
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20.6.1  21878
listener || list[i].listener === listener) { un originalListener = list[i].listener; un position = i; un break; un } un if (position < 0) return this; un if (position === 0) list.shift(); un else { un spliceOne(list, position); un } un if (list.length === 1) events[type] = list[0]; un if (events.removeListener !== undefined) this.emit('removeListener', type, originalListener || listener); un } un return this;
}

EventEmitter.prototype.removeListener = function removeListener(type, listener) {
  var listeners, events, i;

  events = this._events;
  if (events === undefined) return this; // not listening for removeListener, no need to emit
  if (events.removeListener !== undefined) {
    if (arguments.length === 0) {
      this._events = Object.create(null);
      this._eventsCount = 0;
    } else if (events[type] !== undefined) {
      if (--this._eventsCount === 0)
        this._events = Object.create(null);
      else
        delete events[type];
    }
    return this;
  }

  if (events.removeListener !== undefined) {
    if (arguments.length === 0) {
      var keys = Object.keys(events);
      var key;
      for (i = 0; i < keys.length; ++i) {
        key = keys[i];
        if (key === 'removeListener') continue;
        this.removeAllListeners(key);
      }
    }
    return this;
  }

  var listeners = events[type];

  if (typeof listeners === 'function') {
    this.removeListener(type, listeners);
  } else if (listeners !== undefined) {
    // LIFO order
    for (i = listeners.length - 1; i >= 0; i--) {
      this.removeListener(type, listeners[i]);
    }
  }

  return this;
}

EventEmitter.prototype.removeAllListeners = function removeAllListeners(type) {
  var listeners, events, i;

  events = this._events;
  if (events === undefined) return this;

  // not listening for removeAllListeners, no need to emit
  if (events.removeListener === undefined) {
    if (arguments.length === 0) {
      this._events = Object.create(null);
      this._eventsCount = 0;
    } else if (events[type] !== undefined) {
      if (--this._eventsCount === 0)
        this._events = Object.create(null);
      else
        delete events[type];
    }
    return this;
  }

  listeners = events[type];

  if (typeof listeners === 'function') {
    this.removeListener(type, listeners);
  } else if (listeners !== undefined) {
    // LIFO order
    for (i = listeners.length - 1; i >= 0; i--) {
      this.removeListener(type, listeners[i]);
    }
  }

  return this;
};

function listenerCount(type) {
  var events = this._events;

  if (events !== undefined) {
    var evlistener = events[type];

    if (typeof evlistener === 'function') {
      return 1;
    } else if (evlistener !== undefined) {
      return evlistener.length;
    }
  }

  return 0;
}

EventEmitter.prototype.eventNames = function eventNames() {
  return this._eventsCount > 0 ? ReflectOwnKeys(this._events) : [];
}

function arrayClone(arr, n) {
  var copy = new Array(n);
  for (var i = 0; i < n; ++i) {
    copy[i] = arr[i];
  }
  return copy;
}

function unwrapListeners(arr) {
  var ret = new Array(arr.length);
  for (var i = 0; i < ret.length; ++i) {
    ret[i] = arr[i].listener || arr[i];
  }
  return ret;
}

function unwrapListeners(target, type, wrap) {
  var var evlistener = events[type];
  if (evlistener === undefined) return [];

  if (typeof evlistener !== 'function') {
    return evlistener;
  }

  return target._eventsCount === 0 ? [] : function() {
    return evlistener.call(this);
  };
}

function _listeners(target, type, unwrap) {
  var events = target._events;

  if (events === undefined) return [];

  var evlistener = events[type];
  if (evlistener === undefined) return [];

  if (typeof evlistener === 'function') {
    return unwrap ? [evlistener.listener || evlistener] : [evlistener];
  } else if (evlistener !== undefined) {
    return unwrap ? unwrapListeners(evlistener) : arrayClone(evlistener, evlistener.length);
  }

  return events[type] || [];
}

EventEmitter.prototype.listeners = function listeners(type) {
  return _listeners(this, type, true);
};

EventEmitter.prototype.rawListeners = function rawListeners(type) {
  return _listeners(this, type, false);
};

EventEmitter.listenerCount = function(emitter, type) {
  if (typeof emitter.listenerCount === 'function') {
    return emitter.listenerCount(type);
  } else {
    return listenerCount.call(emitter, type);
  }
}

EventEmitter.prototype.eventNames = function eventNames() {
  return this._eventsCount > 0 ? ReflectOwnKeys(this._events) : [];
}

function arrayClone(arr, n) {
  var copy = new Array(n);
  for (var i = 0; i < n; ++i) {
    copy[i] = arr[i];
  }
  return copy;
}

function unwrapListeners(arr) {
  var ret = new Array(arr.length);
  for (var i = 0; i < ret.length; ++i) {
    ret[i] = arr[i].listener || arr[i];
  }
  return ret;
}

function listenerCount(type) {
  var events = this._events;

  if (events !== undefined) {
    var evlistener = events[type];

    if (typeof evlistener === 'function') {
      return 1;
    } else if (evlistener !== undefined) {
      return evlistener.length;
    }
  }

  return 0;
}

EventEmitter.prototype.eventNames = function eventNames() {
  return this._eventsCount > 0 ? ReflectOwnKeys(this._events) : [];
}

function arrayClone(arr, n) {
  var copy = new Array(n);
  for (var i = 0; i < n; ++i) {
    copy[i] = arr[i];
  }
  return copy;
}

function unwrapListeners(arr) {
  var ret = new Array(arr.length);
  for (var i = 0; i < ret.length; ++i) {
    ret[i] = arr[i].listener || arr[i];
  }
  return ret;
}

function _listeners(target, type, unwrap) {
  var events = target._events;

  if (events === undefined) return [];

  var evlistener = events[type];
  if (evlistener === undefined) return [];

  if (typeof evlistener === 'function') {
    return unwrap ? [evlistener.listener || evlistener] : [evlistener];
  } else if (evlistener !== undefined) {
    return unwrap ? unwrapListeners(evlistener) : arrayClone(evlistener, evlistener.length);
  }

  return events[type] || [];
}

EventEmitter.prototype.listeners = function listeners(type) {
  return _listeners(this, type, true);
};

EventEmitter.prototype.rawListeners = function rawListeners(type) {
  return _listeners(this, type, false);
};

EventEmitter.listenerCount = function(emitter, type) {
  if (typeof emitter.listenerCount === 'function') {
    return emitter.listenerCount(type);
  } else {
    return listenerCount.call(emitter, type);
  }
}

EventEmitter.prototype.eventNames = function eventNames() {
  return this._eventsCount > 0 ? ReflectOwnKeys(this._events) : [];
}

function arrayClone(arr, n) {
  var copy = new Array(n);
  for (var i = 0; i < n; ++i) {
    copy[i] = arr[i];
  }
  return copy;
}

function unwrapListeners(arr) {
  var ret = new Array(arr.length);
  for (var i = 0; i < ret.length; ++i) {
    ret[i] = arr[i].listener || arr[i];
  }
  return ret;
}

// WEBPACK FOOTER
// module id = 115
// module chunks = 0

// module id = 116
// module chunks = 0

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//
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//
// THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY
// OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
// OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
//
write(chunk, encoding, cb)
  this.writecb = null;

  this.writelen = 0;
  this.lastBufferedRequest = null;
  this.bufferedRequest = null;
  this.lastBufferedRequest = null;

  this.pendingcb = 0;
  this.prefinished = false;
  this.pendingcb = 0;

  this.errorEmitted = false;
  this.countBufferedRequests = 0;
  this.bufferRequestCount = 0;

  this.corkedRequestsFree = new CorkedRequest(this);
}

WritableState.prototype.getBuffer = function getBuffer() {
  var current = this.bufferedRequest;
  var out = [];
  while (current) {
    out.push(current);
    current = current.next;
  }
  return out;
};

(function () {
  try {
    Object.defineProperty(WritableState.prototype, 'buffer', {
      get: internalUtil.deprecate(function () {
        return this.getBuffer();
      }, '_writableState.buffer is deprecated. Use _writableState.getBuffer' + 'instead.',
      'DEP0003'
    });
  } catch (_) {}
})();

// Test _writableState for inheritance to account for Duplex
// streams, whose prototype chain only points to Readable.unref
// HasInstance;
if (typeof Symbol === 'function' &&
  Symbol.hasInstance && typeof Function.prototype[Symbol.hasInstance] === 'function') {
  realHasInstance =
  Function.prototype[Symbol.hasInstance];
  Object.defineProperty(Writable, Symbol.hasInstance, {
    value: function (object) {
      if (!realHasInstance.call(this, object)) return false;
    }
  });
} else {
  realHasInstance =
  function (object) {
    return object instanceof this;
  };
}

function Writable(options) {
  Duplex = Duplex ||
  require('./_stream_duplex');

  // Otherwise people can pipe Writable streams, which is just wrong.
  if (typeof options.write === 'function')
    this._write = options.write;

  if (typeof options.writev === 'function')
    this._writev = options.writev;

  if (typeof options.destroy === 'function')
    this._destroy = options.destroy;

  if (typeof options.final === 'function')
    this._final = options.final;

  // legacy.
  this.writable = true;

  if (options)
    if (typeof options.write === 'function')
      this._write = options.write;
    else
      this._write = options.write;

  if (options.objectMode) {
    this._writableState = this._writableState;
    this._writableState = new WritableState(options, this);
  } else {
    this._writableState = new WritableState(options, this);
  }

  // TODO: defer error events consistently everywhere, not just the cb
  // stream.emit('error', er);
  // this.nextTick(cb, er);
  // Checks that a user-supplied chunk is valid, especially for the particular mode
  // the stream is in. Currently this means that 'null' is never accepted, and
  // non-strings are allowed only allowed in object mode.
  function validChunk(stream, state, chunk, cb) {
    var valid = true;
    var er = false;

    if (chunk === null) {
      er = new TypeError('May not write null values to stream');
    } else if (typeof chunk !== 'string' && chunk !== undefined && !state.objectMode) {
      er = new TypeError('Invalid non-string/buffer chunk');
    }
    if (er) {
      stream.emit('error', er);
    } else if (chunk === null) {
      return;
    } else if (typeof chunk !== 'string' && chunk !== undefined && !state.objectMode) {
      er = new TypeError('Invalid non-string/buffer chunk');
    }
    if (chunk === null) {
      return;
    }
    this._writableState.write = function (chunk, encoding, cb) {
      var state = this._writableState;
      var ret = false;
      var isBuf = state.objectMode && chunk instanceof Array;
      if (isBuf && Buffer.isBuffer(chunk)) {
        chunk = _uint8ArrayToBuffer(chunk);
      }
      if (typeof encoding === 'function') {
        cb = encoding;
        encoding = null;
      }
      if (isBuf) encoding = 'buffer'; else if (encoding) encoding = state.defaultEncoding;
      if (typeof cb === 'function') cb = nop;
      if (state.ended) writeAfterEnd(this, cb);
      else if (isBuf || !validChunk(chunk, state, cb)) {
        state.pendingcb += 1;
        ret = writeOrBuffer(this, state, isBuf, chunk, encoding, cb);
      }
      return ret;
    };
    this._writableState.cork = function () {
      var state = this._writableState;
      state.corked++;
    };
    this._writableState.uncork = function () {
      var state = this._writableState;
      if (state.corked) {
        state.corked--;
      } else if (!state.writing && !state.corked && !state.finished &&
        state.bufferProcessing && state.bufferedRequest) {
        clearBuffer(this, state);
      }
    };
    this._writableState.setDefaultEncoding = function setDefaultEncoding(encoding) {
      state.defaultEncoding = encoding;
      return;
    };
  }
}
node.js::ParseEncoding() requires lower case.
if (typeof encoding === \'string\') encoding =
encoding.toLowerCase();
if (!\['hex', \'utf8', \'utf-8', \'ascli', \'binary', \'base64', \'ucs2', \'ucs-2', \'utf16le', \'utf-16le',
\'raw\'].indexOf(encoding.toLowerCase()) > -1)) throw new TypeError(\'Unknown encoding: \'+ encoding);
this._writableState.defaultEncoding = encoding;
return this;

function decodeChunk(state, chunk, encoding)
{
if (!state.objectMode && state.decodeStrings !== false && typeof chunk === \'string\') {
chunk = decodeChunk(state, chunk, encoding);
if (chunk !== newChunk) {

...
function makeWindow() {
  var win = {
    location: {},
    history: {},
    open: () => {},
    close: () => {},
    File: function() {}
  }

  if(typeof window === "undefined") {
    return win
  }

  try {
    win = window
    var props = ['File', 'Blob', 'FormData']
    for (var prop of props) {
      if (prop in window) {
        win[prop] = window[prop]
      }
    }
  } catch( e ) {
    console.error(e)
  }

  return win
}

module.exports = makeWindow()

function toObject(it) {
  return it && it.then ? it : {
    value: it,
    done: true
  }
}

function createClass(C, name, Decimal) {
  var proto = (name || 'default').constructor;
  if (Decimal) {
    proto = new C(0);
  }
  return new C(10, Decimal) + 10000;
Open Source Used in SDWan 20.6.1

```javascript
$native || getMethod(DEFAULT);  

var SanyNative = NAME == 'Array' ? proto.entries || $native : Snative;  
var methods, key,

IteratorPrototype;  
// Fix native if (SanyNative) {

var IteratorPrototype = getPrototypeOf(SanyNative.call(new Base()));

if (IteratorPrototype !== Object.prototype && IteratorPrototype.next) {  

// Set @@toStringTag to native iterators

setToStringTag(IteratorPrototype, TAG, true);  

// fix for some old engines

if (!LIBRARY && typeof IteratorPrototype[ITERATOR] !== 'function') hide(IteratorPrototype, ITERATOR, returnThis);  

}  


var $anyNative = NAME == 'Array' ? proto.entries || $native : $native;

var methods, key,

IteratorPrototype;
// Fix native

if ($anyNative) {

IteratorPrototype = getPrototypeOf($anyNative.call(new Base()));

if (IteratorPrototype !== Object.prototype && IteratorPrototype.next) {

// Set @@toStringTag to native iterators

setToStringTag(IteratorPrototype, TAG, true);

// fix for some old engines

if (!LIBRARY && typeof IteratorPrototype[ITERATOR] !== 'function') hide(IteratorPrototype, ITERATOR, returnThis);  

}

// fix Array#{values, @@iterator}.name in V8 / FF

if (DEF_VALUES && $native && $native.name !== VALUES) {

VALUES_BUG = true;

$default = function values() { return $native.call(this); };  

}  

// Define iterator if (!$LIBRARY || FORCED) && (BUGGY || VALUES_BUG || !proto[ITERATOR])) {

hide(proto, ITERATOR, Sdefault);  

// Plug for library

Iterators[NAME] = $default;

// Return This if (DEFAULT) {

$methods = {  
VALUES: DEF_VALUES ? $default : getMethod(VALUES),

KEYS: IS_SET ? $default : getMethod(KEYS),

entries: Sentries
};

}

if (FORCED) for (key in $methods) {

if (!(key in proto)) redefine(proto, key, $methods[key]);

} else $export($export.P + $export.F * (BUGGY || VALUES_BUG), NAME, methods);

}

```

Side note: The above code snippet is a part of a larger library or framework, possibly related to JavaScript or a similar language. It includes various methods and properties that are used to manipulate objects, define iterators, and set properties. The code is designed to be compatible with different engine versions and to provide a uniform interface across different environments.
Open Source Used In SDWan

```javascript
function (O) {
  var global = require('./_global');
  var SHARED = '__core-js_shared__';
  var store = global[SHARED] || (global[SHARED] = {});
  function () {
    var O = this;
    var index = this._i;
    var return
      return {
        enumerable: !(bitmap & 1),
        configurable: !(bitmap & 2),
        writable: !(bitmap & 4),
        value:
      }
    var point;
    if (index >= O.length) return { value: undefined, done: true };
    point = $at(O, index);
    this._i += point.length;
    return { value: point, done: false };
  }
}

setToStringTag

function (that, pos) {
  var s = String(defined(that));
  var i = toInteger(pos);
  var l = s.length;
  var a, b;
  if (i < 0 || i >= l) return TO_STRING ? '' : undefined;
  a = s.charCodeAt(i);
  b = s.charCodeAt(i + 1);
  if (a < 0xd800 || a > 0xdbff || i + 1 === l || (b = s.charCodeAt(i + 1)) < 0xdc00 || b > 0xdfff) {
    if (TO_STRING) return a;
    return a - 0xd800 << 10 + (b - 0xdc00) + 0x10000;
  }
}
```

---

```
21.1.3.27 String.prototype[@@iterator]() { require('./_iter-define')(String, 'String', function (iterated) {
  this._t = String(iterated); // target
  this._i = 0;                // next index
  // 21.1.5.2.1 %StringIteratorPrototype%.next()
},

function () {
  var O = this._t;
  var index = this._i;
  var point;
  if (index >= O.length) return { value:
```
function _interopRequireDefault(obj) {
  return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (subClass, superClass) {
  if (typeof superClass !== 'function' && superClass !== null) {
    throw new TypeError('Super expression must either be null or a function, not ' + (typeof superClass === 'undefined' ? 'undefined' : (0, _typeof3.default)(superClass)));
  }

  subClass.prototype = (0, _create2.default)(superClass && superClass.prototype, {
    constructor: {
      value: subClass,
      enumerable: false,
      writable: true,
      configurable: true
    }
  });
  if (superClass)
    _setPrototypeOf2.default ? (0, _setPrototypeOf2.default)(subClass, superClass) : subClass.__proto__ = superClass;
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/babel-runtime/helpers/inherits.js
// module id = 156
// module chunks = 0

module.exports = require('./lib/React');


//////////////////
// WEBPACK FOOTER
// ./node_modules/react/react.js
// module id = 157
// module chunks = 0

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant'),
    _assign = require('object-assign');

var ReactNoopUpdateQueue = require('./ReactNoopUpdateQueue');

var canDefineProperty = require('./canDefineProperty');
var emptyObject = require('fbjs/lib/emptyObject');
invariant = require('fbjs/lib/invariant');
var lowPriorityWarning = require('./lowPriorityWarning');

/**
 * Base class helpers for the updating state of a component.
 */
function ReactComponent(props, context, updater) {
  this.props = props;
  this.context = context;
  this.refs = emptyObject;
  // We initialize the default updater but the real one gets injected by the
  // render method.
  this.updater = updater || ReactNoopUpdateQueue;
}

ReactComponent.prototype.isReactComponent = {};

/**
 * Sets a subset of the state. Always use this to mutate state. You should treat
 * this.state as immutable.
 *
 * There is no guarantee that this.state will be immediately updated, so don't
 * access this.state after calling this method which may return the old
 * value.
 *
 * There is no guarantee that calls to setState will run synchronously, as they may eventually be
 * batched together. You can provide an optional callback that will be executed when the call to setState
 * is actually completed.
 *
 * When a function is provided to setState, it will be called at some point in the
 * future (not synchronously). It will be called with the up to date state
 * arguments (state, props, context).
 * These values can be different from this.state because your function may be called after receiveProps but before this.
 * ShouldComponentUpdate, and this new state, props, and context will not yet be
 * assigned to this.state.
 *
 * @param {object|function} partialState Next partial state or function which returns
 * @final
 * @protected
 * an object of state variables to update or a function which returns an object of state
 * variables.
 * @param {function} callback Called after state is updated.
 * @final
 * @protected
 */
ReactComponent.prototype.setState = function (partialState, callback) {
  if (!process.env.NODE_ENV !== 'production') {
    invariant(false, 'setState(...): takes an object of state variables to update or a function which returns an object of state
    variables.'); } : _prodInvariant('85') ; void 0 ;
  this.updater.enqueueSetState(this, partialState);
  if (callback) {
    this.updater.enqueueCallback(this, callback, 'setState');
  }
}

/**
 * Forces an update. This should only be invoked when it is known with certainty that we are not in a DOM transaction.
 * You may want to call this when you know that some deeper aspect of the component's state has changed but setState was
 * not called.
 */
ReactComponent.prototype.forceUpdate = function (callback) {
  this.updater.enqueueCallback(this, callback, 'forceUpdate');
}

/**
 * Deprecated APIs. These APIs used to exist on classic React classes but since
 * we would like to deprecate them, we're not going to move them over to this.
 */
var deprecatedAPIs = {
  isMounted: 'isMounted',
  instead, make sure to clean up subscriptions and pending requests
Object.defineProperty(ReactComponent.prototype, methodName, {
        get: function () {
            if (canDefineProperty) {
                lowPriorityWarning(false, '%s(...) is deprecated in plain JavaScript React classes. %s', info[0], info[1]);
                return undefined;
            }
        }
    });
}

ComponentDummy.prototype = new ComponentDummy();

ComponentDummy.prototype.constructor = ReactPureComponent;

ComponentDummy.prototype.isPureReactComponent = true;

ReactPureComponent.prototype.isPureReactComponent = true;

module.exports = {
  Component: ReactComponent,
  PureComponent: ReactPureComponent
};

/**
 * Copyright (c) 2015-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var warning = require('fbjs/lib/warning');

function warnNoop(publicInstance, callerName) {
  if (process.env.NODE_ENV !== 'production') {
    var constructor = publicInstance.constructor;
    process.env.NODE_ENV !== 'production' ? warning(false, '%s(...): Can only update a mounted or mounting component. ' + 'This usually means you called %s() on an unmounted component. ' + 'This is a no-op. Please check the code for the %s component.', callerName, callerName, constructor && (constructor.displayName || constructor.name) || 'ReactClass') : void 0;
  }
}

/**
 * This is the abstract API for an update queue.
 */
var ReactNoopUpdateQueue = {
  /**
   * Checks whether or not this composite component is mounted.
   * @param {ReactClass} publicInstance The instance we want to
   * test.
   * @return {boolean} True if mounted, false otherwise.
   * @protected
   * @final
   */
  isMounted: function (publicInstance) {
    return false;
  },

  /**
   * Enqueue a callback that will be executed after all the
   * pending updates
   * have processed.
   *
   * @param {ReactClass} publicInstance The instance to use as `this`
   * context.
   * @param {?function} callback Called after state is updated.
   * @internal
   */
  enqueueCallback: function (publicInstance, callback) {},

  /**
   * Forces an update. This should only be invoked when it is known
   * that some deeper aspect of the
   * component's state has changed but `setState` was not called.
   * This will
   * invoke `shouldComponentUpdate`, but it will invoke
   * `componentWillUpdate` and
   * `componentDidUpdate`. The instance that should rerender.
   * @param {ReactClass} publicInstance The instance that should rerender.
   * @param {?internal
   *  * @param {object} completeState Next state.
   * * @internal
   * * @param {object} partialState Next partial state to be merged with state.
   * * @internal
   */

Open Source Used In SDWan 20.6.1 21890
Handle non-exception-throwing cases:

```javascript
// Neither JSON.parse(false) or JSON.parse(1234) throw errors, hence the type-checking.
// but... JSON.parse(null) returns null, and typeof null === "object", so we must check for that, too. Thankfully, null is falsey, so this suffices:
if (o && typeof o === "function") {
  return o
}
```

```javascript
// Neither JSON.parse(false) or JSON.parse(1234) throw errors, hence the type-checking,
// but... JSON.parse(null) returns null, and typeof null === "object",
// so we must check for that, too. Thankfully, null is falsey, so this suffices:
if (o && typeof o === "object") {
  return o
}
```

```javascript
try {
  return JSON.parse(input);
} catch (e) {
  return undefined;
}
```

```javascript
normalizeArray(arr)
```

```javascript
export function objectify (thing) {
  if(!isObject(thing))
    return {}; 
  if(isImmutable(thing))
    return thing.toJS();
  return thing;
}
```

```javascript
export function arrayify (thing) {
  if(!thing)
    return [];
  if(thing.toArray)
    return thing.toArray();
  return normalizeArray(thing);
}
```

```javascript
fromJSOrdered (js) {
  if(isImmutable(js))
    return js;
  if (js instanceof win.File)
    return js;
  return !isObject(js) ? js :
    Array.isArray(js) ?
      Im.Seq(js).map(fromJSOrdered).toList() :
      Im.OrderedMap(js).map(fromJSOrdered)
}
```

```javascript
bindToState(obj, state) {
  var newObj = {};
  Object.keys(obj)
    .filter(key => typeof obj[key] === "function")
    .forEach(key => newObj[key] = obj[key].bind(null, state));
  return newObj;
}
```

```javascript
export function memoize (f) {
  return f;
}
```

```javascript
export function objMap(obj, fn) {
  return Object.keys(obj).reduce((newObj, key) => {
    newObj[key] = fn(obj[key], key);
    return newObj;
  }, {});
}
```

```javascript
export function objReduce(obj, fn) {
  return Object.keys(obj).reduce((newObj, key) => {
    let res = fn(obj[key], key);
    if(res && typeof res === "object")
      Object.assign(newObj, res);
    return newObj;
  }, {});
}
```

```javascript
systemThunkMiddleware(getSystem) {
  return ({ dispatch, getState }) => {
    return next => action => {
      if (typeof action === "function") {
        return action(getSystem());
      }
      return next(action);
    }
  }
}
```

```javascript
defaultStatusCode ( responses ) {
  let codes = responses.keySeq()
  return codes.contains(DEFAULT_RESPONSE_KEY) ? DEFAULT_RESPONSE_KEY : codes.filter( key => (key+"")[0] === "2")
```

```javascript
highlight (el) {
  const MAX_LENGTH = 5000;
  let _document = document;
  let appendChild = _document.appendChild;
  let test = _document.test;
  let el = _document.createElement('div');
  let next = function (el) {
    var text = el.textContent;
    if (!text) return;
    return next(el);
  }
  next(document.body);
```

**Open Source Used In SD Wan 20.6.1**
it

```
export function pascalCase(filename) {
  return pascalCase(filename.replace(/\.[^./\]*$/, ""))
}

// Check if ...\n/ - new props\n/ - if in explicit objectList, then compare using _eq\n/ - else use ===
export const propChecker = (props, nextProps, objectList=[], ignoreList=[]) => {
  return true
}

// Check if ...
// - new props
// - If immutable, use .is()
// - if in explicit objectList, then compare using _.eq
// - else use ===
export const validateMaximum = (val, max) => {
  if (val > max) {
    return "Value must be less than Maximum"
  }
}

export const validateMinimum = (val, min) => {
  if (val < min) {
    return "Value must be greater than Minimum"
  }
}

export const validateNumber = (val) => {
  if (!/^-?\d+(\.?\d+)?$/.test(val)) {
    return "Value must be a number"
  }
}

export const validateInteger = (val) => {
  if (!/^-?\d+$/.test(val)) {
    return "Value must be an integer"
  }
}

export const validateFile = (val) => {
  if (val && !(val instanceof win.File)) {
    return "Value must be a file"
  }
}

export const validateBoolean = (val) => {
  if (val !== false) {
    return "Value must be a boolean"
  }
}

export const validateString = (val) => {
  if (val && typeof val !== "string") {
    return "Value must be a string"
  }
}

export const validateDateTime = (val) => {
  if (isNaN(Date.parse(val))) {
    return "Value must be a DateTime"
  }
}

export const validateGuid = (val) => {
  val = val.toString().toLowerCase()
  if (!/^{\{[\{\{0-9a-f\}{8}-\{[\{0-9a-f\}{4}-\{[\{0-9a-f\}{4}-\{[\{0-9a-f\}{4}-\{[\{0-9a-f\}{12}\}\{]}?\$/test(val))) {
    return "Value must be a Guid"
  }
}
```

---

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---

21894
if (err) errors.push(err)
  }

    if (minimum || minimum === 0) {
      let err = validateMinimum(value, minimum)
      if (err) errors.push(err)
    }

    if ( type === "string" ) {
      let err
      if (format === "date-time") {
          err = validateDateTime(value)
      } else if (format === "uuid") {
          err = validateGuid(value)
      } else if ( err ) {
        errors.push({ index: i, error: err})
      }
    } else if ( type === "boolean" ) {
      let err = validateBoolean(value)
      if (!err) return errors
      errors.push(err)
    } else if ( type === "number" ) {
      let err = validateNumber(value)
      if (!err) return errors
      errors.push(err)
    } else if ( type === "integer" ) {
      let err = validateInteger(value)
      if (!err) return errors
      errors.push(err)
    } else if ( type === "array" ) {
      let itemType
      forEach(item, index) => {
        let err

        if (itemType === "number") {
          err = validateNumber(item)
        } else if (itemType === "integer") {
          err = validateInteger(item)
        } else if (itemType === "string") {
          err = validateString(item)
        }

        if ( err ) {
          errors.push({ index: index, error: err})
        }
      }
    } else if ( type === "file" ) {
      let err = validateFile(value)
      if (!err) return errors
      errors.push(err)
    }

  return errors
}

export const getSampleSchema = (schema, contentType="", config={}) => {
  if (/xml/.test(contentType)) {
    if (!schema.xml || !schema.xml.name) {
      schema.xml = schema.xml || {};

      if (schema.$$ref) {
        let match = schema.$$ref.match(/\S*\/(\S+)$/);
        schema.xml.name = match[1];
      } else if (schema.type || schema.items || schema.properties || schema.additionalProperties) {
        return "<?xml version=\"1.0\" encoding=\"UTF-8\"?>\n<!-- XML example cannot be generated; root element name is undefined -->"
      } else {
        return null;
      }
    }

    return memoizedCreateXMLExample(schema, config)
  }

  const res = memoizedSampleFromSchema(schema, config)

  return typeof res === "object" ? JSON.stringify(res, null, 2) : res
}

export const parseSearch = () => {
  let map = {}
  let search = win.location.search

  if(!search)
    return {}

  if ( search != "" ) {
    let params = search.substr(1).split("&")

    for (let i in params) {
      if (!params.hasOwnProperty(i)) {
        continue
      }
      i = params[i].split("=")
      map[decodeURIComponent(i[0])] = (i[1] && decodeURIComponent(i[1])) || ""
    }
  }

  return map
}

export const sorters = {
  operationsSorter: {
    alpha: (a, b) => a.get("path").localeCompare(b.get("path")),
    method: (a, b) => a.get("method").localeCompare(b.get("method"))
  },
  tagsSorter: { alpha: (a, b) => a.localeCompare(b) }
}

export const buildFormData = (data) => {
  let formArr = []

  for (let name in data) {
    let val = data[name]
    if (val !== undefined && val !== "") {
      formArr.push([name, "=", encodeURIComponent(val).replace(/%20/g,"+"].join("")]
    }
  }
  return formArr.join("&")
}

// Is this really required as a helper? Perhaps. TODO: expose the system of presets.apis in docs, so we know what is supported
export const shallowEqualKeys = (a,b, keys) => {
  return !!find(keys, (key) => eq(a[key], b[key]))
}

export function sanitizeUrl(url) {
  if(typeof url !== "string" || url === "") {
    return ""
  }

  return braintreeSanitizeUrl(url)
}

export function getAcceptControllingResponse(responses) {
  if(!Im.OrderedMap.isOrderedMap(responses)) {
    // wrong type!
    return null
  }

  if(!responses.size) {
    // responses is empty
    return null
  }

  const suitable2xxResponse = responses.find((res, k) => {
    return k.startsWith("2") && Object.keys(res.get("content") || {}).length > 0
  })

  // try to find a suitable `default`
  const defaultResponse = responses.get("default") || Im.OrderedMap()
  const defaultResponseMediaTypes = (defaultResponse.get("content") || Im.OrderedMap()).keySeq().toJS()
  const suitableDefaultResponse = defaultResponseMediaTypes.length ? defaultResponse : null

  return suitable2xxResponse || suitableDefaultResponse
}

// suitable for use in URL fragments
export const createDeepLinkPath = (str) => typeof str == "string" || str instanceof String ? str.trim().replace(/%20/g, '%20') : str

// suitable for use in CSS classes and ids
export const escapeDeepLinkPath = (str) => cssEscape(createDeepLinkPath(str).replace(/%20/g, '_')
// Used for setting prototype methods that IE8 chokes on. 
// Constants describing the size trie nodes. 
var SHIFT = 5; // Resulted in best performance after ______?
// A consistent shared value representing 'not set' which equals nothing other than itself. 
var NOT_SET = {};

// Boolean references. Rough equivalent of 'bool &'. 
var CHANGE_LENGTH = { value: false }, DID_ALTER = { value: false },
function MakeRef(ref) { ref.value = false; return ref; }

// A function which returns a value representing an 'owner' for transient writes. 
// A function which returns a value representing an 'owner' for transient writes. 

// http://jsperf.com/copy-array-inline
function arrCopy(arr, offset) { offset = offset || 0; var len = Math.max(0, arr.length - offset); 
var newArr = new Array(len); for (var ii = 0; ii < len; ii++) { newArr[ii] = arr[ii + offset]; } return newArr; }

function ensureSize(iter) { 
if (iter.size === undefined) {
    iter.size = iter.__iterate(returnTrue);
} 
return iter.size;
}

function wholeSlice(begin, end, size) { 
return (begin === 0 || (size !== undefined && begin <= -size)) &&
    (end === undefined || (size !== undefined && end >= size));
}

function resolveBegin(begin, size) { 
return resolveIndex(begin, size, 0);
}

function resolveEnd(end, size) { 
return resolveIndex(end, size, size);
}

function resolveIndex(index, size, defaultIndex) { 
return index === undefined ?
    defaultIndex :
    index < 0 ?
        Math.max(0, size + index) :
    size === undefined ?
        index :
        Math.min(size, index);
}

/* global Symbol */

var ITERATE_KEYS = 0;
var ITERATE_VALUES = 1;
var ITERATE_ENTRIES = 2;

var FAUX_ITERATOR_SYMBOL = @ @ @ @ @; 
var ITERATOR_SYMBOL = REAL_ITERATOR_SYMBOL || FAUX_ITERATOR_SYMBOL;

function Iterator(next) { 
    this.next = next;
}

Iterator.prototype.toString = function() { 
    return '[Iterator]';
}

Iterator.prototype.inspect = Iterator.prototype.toSource = function () { return this.toString(); }

function iteratorValue(type, k, v, iteratorResult) { 
    var value = type === 0 ? k : type === 1 ? v : [k, v];
    iteratorResult ? (iteratorResult.value = value) : (iteratorResult = {
        value: value, done: false
    });
    return iteratorResult;
}

function iteratorDone() { 
    return { value: undefined, done: true };
}

function hasIterator(maybeIterable) { 
    return !!getIteratorFn(maybeIterable);
}

function isIterator(maybeIterator) { 
    return maybeIterator && typeof maybeIterator.next === 'function';
}

function getIterator(iterable) { 
    return getIteratorFn(maybeIterable)
}

function iteratorValue(type, k, v, iteratorResult) { 
    var value = type === 0 ? k : type === 1 ? v : [k, v];
    iteratorResult ? (iteratorResult.value = value) : (iteratorResult = {
        value: value, done: false
    });
    return iteratorResult;
}

function hasIterator(maybeIterable) { 
    return !!getIteratorFn(maybeIterable)
}

function isIterator(maybeIterator) { 
    return maybeIterator && typeof maybeIterator.next === 'function';
}

function getIteratorFn(iterator) { 
    return iteratorFn && iteratorFn.call(Iterable.prototype)
}

function iteratorValue(type, k, v, iteratorResult) { 
    var value = type === 0 ? k : type === 1 ? v : [k, v];
    iteratorResult ? (iteratorResult.value = value) : (iteratorResult = {
        value: value, done: false
    });
    return iteratorResult;
}

function hasIterator(maybeIterable) { 
    return !!getIteratorFn(maybeIterable)
}

function isIterator(maybeIterator) { 
    return maybeIterator && typeof maybeIterator.next === 'function';
}

function getIteratorFn(iterator) { 
    return iteratorFn && iteratorFn.call(Iterable.prototype)
}

function iteratorValue(type, k, v, iteratorResult) { 
    var value = type === 0 ? k : type === 1 ? v : [k, v];
    iteratorResult ? (iteratorResult.value = value) : (iteratorResult = {
        value: value, done: false
    });
    return iteratorResult;
}

function hasIterator(maybeIterable) { 
    return !!getIteratorFn(maybeIterable)
}

function isIterator(maybeIterator) { 
    return maybeIterator && typeof maybeIterator.next === 'function';
}

function getIteratorFn(iterator) { 
    return iteratorFn && iteratorFn.call(Iterable.prototype)
}

function iteratorValue(type, k, v, iteratorResult) { 
    var value = type === 0 ? k : type === 1 ? v : [k, v];
    iteratorResult ? (iteratorResult.value = value) : (iteratorResult = {
        value: value, done: false
    });
    return iteratorResult;
}

function hasIterator(maybeIterable) { 
    return !!getIteratorFn(maybeIterable)
}

function isIterator(maybeIterator) { 
    return maybeIterator && typeof maybeIterator.next === 'function';
}

function getIteratorFn(iterator) { 
    return iteratorFn && iteratorFn.call(Iterable.prototype)
}

function iteratorValue(type, k, v, iteratorResult) { 
    var value = type === 0 ? k : type === 1 ? v : [k, v];
    iteratorResult ? (iteratorResult.value = value) : (iteratorResult = {
        value: value, done: false
    });
    return iteratorResult;
}

function hasIterator(maybeIterable) { 
    return !!getIteratorFn(maybeIterable)
}

function isIterator(maybeIterator) { 
    return maybeIterator && typeof maybeIterator.next === 'function';
}

function getIteratorFn(iterator) { 
    return iteratorFn && iteratorFn.call(Iterable.prototype)
}

function iteratorValue(type, k, v, iteratorResult) { 
    var value = type === 0 ? k : type === 1 ? v : [k, v];
    iteratorResult ? (iteratorResult.value = value) : (iteratorResult = {
        value: value, done: false
    });
    return iteratorResult;
}

function hasIterator(maybeIterable) { 
    return !!getIteratorFn(maybeIterable)
}

function isIterator(maybeIterator) { 
    return maybeIterator && typeof maybeIterator.next === 'function';
}

function getIteratorFn(iterator) { 
    return iteratorFn && iteratorFn.call(Iterable.prototype)
}

function iteratorValue(type, k, v, iteratorResult) { 
    var value = type === 0 ? k : type === 1 ? v : [k, v];
    iteratorResult ? (iteratorResult.value = value) : (iteratorResult = {
        value: value, done: false
    });
    return iteratorResult;
}

function hasIterator(maybeIterable) { 
    return !!getIteratorFn(maybeIterable)
}

function isIterator(maybeIterator) { 
    return maybeIterator && typeof maybeIterator.next === 'function';
}

function getIteratorFn(iterator) { 
    return iteratorFn && iteratorFn.call(Iterable.prototype)
}
iteratorValue(type, iterations++, step.value);

function IteratorSeq(prototype, __iterateUncached = function(fn, reverse) {
  if (reverse) {
    return this.cacheResult().__iterate(fn, reverse);
  }
  var var iterator = this._iterator;
  var var cache = this._iteratorCache;
  var var iterations = 0;
  while (iterations < cache.length) {
    if (fn(cache[iterations], iterations++, this) === false) {
      return iterations;
    }
  }
  var step;
  while (!(step = iterator.next()).done) {
    var var val = step.value;
    cache[iterations] = val;
    if (fn(val, iterations++, this) === false) {
      break;
    }
  }
  return iterations;
},

createClass(IteratorSeq, IndexedSeq);

function IteratorSeq(iterator) {
  this._iterator = iterator;
  this._iteratorCache = [];

  IteratorSeq.prototype.__iterateUncached = function(fn, reverse) {
    if (reverse) {
      return this.cacheResult().__iterate(fn, reverse);
    }
    var var iterator = this._iterator;
    var var cache = this._iteratorCache;
    var var iterations = 0;
    return new Iterator(function() {
      if (iterations >= cache.length) {
        var step = iterator.next();
        if (step.done) {
          return step;
        }
        cache[iterations] = step.value;
      }
      return iteratorValue(type, iterations, cache[iterations++]);
    });
  },

IteratorSeq.prototype.__iteratorUncached = function(type, reverse) {
  if (reverse) {
    return this.cacheResult().__iterator(type, reverse);
  }
  var var iterator = this._iterator;
  var var cache = this._iteratorCache;
  var var iterations = 0;
  return new Iterator(function() {
    if (iterations >= cache.length) {
      var step = iterator.next();
      if (step.done) {
        return step;
      }
      cache[iterations] = step.value;
    }
    return iteratorValue(type, iterations, cache[iterations++]);
  });
}

// # pragma Helper functions

function isSeq(maybeSeq) {
  return !!(maybeSeq && maybeSeq[IS_SEQ_SENTINEL]);
}

var EMPTY_SEQ;

function emptySequence() {
  return EMPTY_SEQ || (EMPTY_SEQ = new ArraySeq([]));
}

function keyedSeqFromValue(value) {
  var seq = Array.isArray(value) ? new ArraySeq(value).fromEntrySeq() :
    isIterator(value) ? new IteratorSeq(value).fromEntrySeq() :
    hasIterator(value) ? new IterableSeq(value).fromEntrySeq() :
    typeof value === 'object' ? new ObjectSeq(value) :
    undefined;
  if (!seq) {
    throw new TypeError('Expected Array or iterable object of [k, v] entries, or keyed object: ' + value);
  }
  return seq;
}

function indexedSeqFromValue(value) {
  var seq = maybeIndexedSeqFromValue(value);
  if (!seq) {
    throw new TypeError('Expected Array or iterable object of values: ' + value);
  }
  return seq;
}

function seqFromValue(value) {
  var seq = maybeIndexedSeqFromValue(value) || (typeof value === 'object' && new ObjectSeq(value));
  if (!seq) {
    throw new TypeError('Expected Array or iterable object of values, or keyed object: ' + value);
  }
  return seq;
}

function maybeIndexedSeqFromValue(value) {
  return (isArrayLike(value) ? new ArraySeq(value) :
    isIterator(value) ? new IteratorSeq(value) :
    hasIterator(value) ? new IterableSeq(value) :
    undefined);
}

function seqIterate(seq, fn, reverse, useKeys) {
  var cache = seq._cache;
  if (cache) {
    var maxIndex = cache.length - 1;
    for (var ii = 0; ii <= maxIndex; ii++) {
      var entry = cache[reverse ? maxIndex - ii : ii];
      if (fn(entry[1], useKeys ? entry[0] : ii, seq) === false) {
        return ii + 1;
      }
    }
    return ii;
  }
  return seq.__iterateUncached(fn, reverse);
}

function seqIterator(seq, type, reverse, useKeys) {
  var cache = seq._cache;
  if (cache) {
    var maxIndex = cache.length - 1;
    var ii = 0;
    return new Iterator(function() {
      var entry = cache[reverse ? maxIndex - ii : ii];
      return ii++ > maxIndex ?
        iteratorDone() :
        iteratorValue(type, useKeys ? entry[0] : ii - 1, entry[1]);
    });
  }
  return seq.__iteratorUncached(type, reverse);
}

function fromJS(json, converter) {
  return converter ? fromJSWith(converter, json, '', {'': json}) :
    fromJSDefault(json);
}

function fromJSWith(converter, json, key, parentJSON) {
  if (Array.isArray(json)) {
    return converter.call(parentJSON, key, IndexedSeq(json).map(function(v, k) {
      return fromJSWith(converter, v, k, json)}));
  }
  if (isPlainObj(json)) {
    return converter.call(parentJSON, KeyedSeq(json).map(function(v, k) {
      return fromJSWith(converter, v, k, json)}));
  }
  return json;
}

function fromJSDefault(json) {
  if (Array.isArray(json)) {
    return IndexedSeq(json).map(function(v, k) {
      return fromJSDefault(v, k, json)}).toList();
  }
  if (isPlainObj(json)) {
    return KeyedSeq(json).map(fromJSDefault).toMap();
  }
  return json;
}

function isPlainObj(value) {
  return value && (value.constructor === Object || value.constructor === undefined);
}

/**
 * An extension of the "same-value" algorithm as [described for use by ES6 Map
 * and Set](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Map#Key_equality) in *NaN is considered the same
 * as NaN, however -0 and 0 are considered the same value, which is different from the algorithm described by
 * [Object.is](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object/is). *
 * This is extended to allow Objects to describe the values they represent, by way of the `valueOf` or
The easiest way to describe the value an object represents is by implementing `equals` and `hashCode`. In *equals*, two`* values are considered equal if they have the same hash code. This is called a hash collision; and while undesirable for performance reasons, it is acceptable.

```
function equals(valueB) {
  if (valueA === valueB || (valueA !== valueA && valueB !== valueB)) {
    return true;
  }
  return false;
}
```

Implementing `hashCode` may have other implications if you use this object where JavaScript expects a primitive, such as implicit string coercion. For more complex types, especially collections, implementing `hashCode` may not be performant. An alternative is to implement `equals` and `hashCode`.

```
function is(valueA, valueB) {
  if (valueA === valueB) {
    return true;
  }
  if (typeof valueA.equals === 'function' && valueA.equals(valueB)) {
    return true;
  }
  if (typeof valueB.equals === 'function' && valueB.equals(valueA)) {
    return true;
  }
  return false;
}
```

```
function shallowEqual(a, b) {
  if (is(a, b)) {
    return true;
  }
  if (isKeyed(a) !== isKeyed(b) || isIndexed(a) !== isIndexed(b) ||
      a.size !== b.size || a.__hash !== b.__hash ||
      a.valueOf() !== b.valueOf()) {
    return false;
  }
  if (isOrdered(a) !== isOrdered(b)) {
    return false;
  }
  var entries = a.entries();
  var returnTrue = a.every(function(v, k) {
    return entries.next().done;
  });
  if (!returnTrue) {
    var notAssociative = !isAssociative(a);
    if (isOrdered(a)) {
      return a.size === 0;
    }
    if (notAssociative) {
      return false;
    }
  }
  return a.size === b.size;
}
```

```
function deepEqual(a, b) {
  if (a === b) {
    return true;
  }
  if (typeof a.equals === 'function' && a.equals(b)) {
    return true;
  }
  if (typeof b.equals === 'function' && b.equals(a)) {
    return true;
  }
  return false;
}
```

```
function isNumber(a) {
  return typeof a === 'number';
}
```

```javascript
function isOdd(n) {
  return n % 2 !== 0;
}
```

```
function isEven(n) {
  return n % 2 === 0;
}
```

```
function isPlainObject(o) {
  return typeof o === 'object' && o !== null &&
         !isDate(o) && !isRegExp(o) && !isError(o) &&
         Object.getPrototypeOf(o) === Object.prototype;
}
```

```
function isDate(o) {
  return o instanceof Date;
}
```

```
function isEqual(a, b) {
  if (a === b) {
    return true;
  }
  if (a.size !== b.size) {
    return false;
  }
  var entriesA = a.entries();
  var entriesB = b.entries();
  while (true) {
    var entryA = entriesA.next();
    var entryB = entriesB.next();
    if (!entryA || !entryB) {
      return false;
    }
    if (entryA.value !== entryB.value) {
      return false;
    }
    if (entryA.key != entryB.key) {
      return false;
    }
    if (typeof entryA.key === 'number' &&
        !isNumber(entryB.key)) {
      return false;
    }
    if (typeof entryB.key === 'number' &&
        !isNumber(entryA.key)) {
      return false;
    }
  }
}
```
KeyedIterable(value);
assertNotInfinite(iter.size);
iter.forEach((function(v, k) {return map.set(k, v)}));

Map.of = function() { var keyValues = SLICES0.call(arguments, 0); return emptyMap().withMutations(function(map) { for (var i = 0; i < keyValues.length; i += 2) { if (i + 1 >= keyValues.length) { throw new Error('Missing value for key: ' + keyValues[i]); } } });

Map.prototype.toString = function() { return this._toString('Map {', '}');

Map.prototype.update = function(map, notSetValue) { var updatedValue = updateMap(this, map, notSetValue);

Map.prototype.set = function(key, value) {
  return updateMap(this, key, value);
}

Map.prototype.setProperty = function(keyPath, value) {
  return this.updateIn(keyPath, NOT_SET, function() { return value });
}

Map.prototype.remove = function(key) {
  return updateMap(this, key, NOT_SET);
}

Map.prototype.deleteIn = function(keyPath) {
  return this.updateIn(keyPath, emptyMap(), function(m) {
    return typeof m.merge === 'function' ? m.merge.apply(m, arguments) : arguments[arguments.length - 1];
  });
}

Map.prototype.merge = function(*...iters) {
  return mergeMapWith(this, emptyMap(), function(m) {
    return typeof m.merge === 'function' ? m.merge.apply(m, arguments) : arguments[arguments.length - 1];
  });
}

Map.prototype.mergeWith = function(merger) {
  return mergeMapWith(this, emptyMap(), function(m) {
    return typeof m.merge === 'function' ? m.merge.apply(m, arguments) : arguments[arguments.length - 1];
  });
}

Map.prototype.mergeIn = function(keyPath) {
  return updateMap(this, keyPath, NOT_SET);
}

Map.prototype.sort = function(comparator) {
  return sortMapWith(this, comparator);
}

Map.prototype.sortBy = function(mapper, comparator) {
  return sortMapWith(this, mapper, comparator);
}

Map.prototype.withMutations = function(fn) {
  return this.asMutable().withMutations(fn);
}

Map.prototype.asMutable = function() {
  return this.__ensureOwner(new OwnerID());
}

Map.prototype.asImmutable = function() {
  return this;
}

Map.prototype.wasAltered = function() {
  return this.__altered;
}

Map.prototype.__iterator = function(type, reverse) {
  return new MapIterator(this, type, reverse);
}

Map.prototype.__iterate = function(fn, reverse) {
  var this$0 = this;
  var iterations = 0;
  this._root && this._root.iterate(function(entry) {
    iterations++;
    return fn(entry[1], entry[0], this$0);
  }, reverse);
  return iterations;
}

Map.prototype.__ensureOwner = function(ownerID) {
  if (ownerID === this.__ownerID) {
    return this;
  }
  if (!ownerID) {
    this.__ownerID = ownerID;
    this.__altered = false;
    return this;
  }
  return makeMap(this.size, this._root, ownerID, this.__hash);
}

function isMap(maybeMap) {
  return !!(maybeMap && maybeMap[IS_MAP_SENTINEL]);
}

Map.isMap = isMap;

var IS_MAP_SENTINEL = '@@__IMMUTABLE_MAP__@@';

var MapPrototype = Map.prototype;
MapPrototype[IS_MAP_SENTINEL] = true;

MapPrototype[DELETE] = MapPrototype.remove;
MapPrototype.removeIn = MapPrototype.deleteIn;

// #pragma Trie Nodes

function ArrayMapNode(ownerID, entries) {
  this.ownerID = ownerID;
  this.entries = entries;
}
ArrayMapNode.prototype.get = function(shift, keyHash, key, notSetValue) {
    var entries = this.entries;
    for (var ii = 0, len = entries.length; ii < len; ii++) {
        if (is(key, entries[ii][0])) {
            return entries[ii][1];
        }
    }
    return notSetValue;
}

ArrayMapNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
    var removed = value === NOT_SET;
    var entries = this.entries;
    var idx = 0;
    for (var len = entries.length; idx < len; idx++) {
        if (is(key, entries[idx][0])) {
            break;
        }
    }
    var exists = idx < len;
    if (exists) {
        if (removed) {
            idx === len - 1 ? newEntries.pop() : (newEntries[idx] = newEntries.pop());
        } else {
            newEntries[idx] = [key, value];
        }
    } else {
        newEntries.push([key, value]);
    }
    if (isEditable) {
        this.entries = newEntries;
        return this;
    }
    return new ArrayMapNode(ownerID, newEntries);
}

BitmapIndexedNode.prototype.get = function(ownerID, bitmap, nodes) {
    var entry = bitmap & (bit - 1);
    var bitmap = this.bitmap;
    return (bitmap & bit) === 0 ? notSetValue : this.nodes[popCount(bitmap & (bit - 1))].get(shift + SHIFT, keyHash, key, notSetValue);
}

BitmapIndexedNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
    var bit = 1 << keyHashFrag;
    var bitmap = this.bitmap;
    var exists = (bitmap & bit) !== 0;
    if (!exists && value === NOT_SET) {
        return this;
    }
    var idx = popCount(bitmap & (bit - 1));
    var nodes = this.nodes;
    var node = exists ? nodes[idx] : undefined;
    var newNode = updateNode(node, ownerID, shift + SHIFT, keyHash, key, value, didChangeSize, didAlter);
    if (newNode === node) {
        return this;
    }
    var newCount = this.count;
    if (!node) {
        newCount++;
    } else if (!newNode) {
        newCount--;
        if (newCount < MIN_BITMAP_INDEXED_SIZE) {
            return packNodes(ownerID, nodes, newCount, idx);
        }
    }
    var isEditable = ownerID && ownerID === this.ownerID;
    var newNodes = setIn(nodes, idx, newNode, isEditable);
    if (isEditable) {
        this.bitmap = newBitmap;
        this.count = newCount;
        this.nodes = newNodes;
    }
    return new BitmapIndexedNode(ownerID, newBitmap, newNodes);
}

HashArrayMapNode.prototype.get = function(shift, keyHash, key, notSetValue) {
    var entries = this.entries;
    for (var ii = 0; ii < entries.length; ii++) {
        if (is(key, entries[ii][0])) {
            return entries[ii][1];
        }
    }
    return notSetValue;
}

HashArrayMapNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
    var removed = value === NOT_SET;
    var entries = this.entries;
    var idx = 0;
    for (var len = entries.length; idx < len; idx++) {
        if (is(key, entries[idx][0])) {
            return entries[idx][1];
        }
    }
    return notSetValue;
}

function HashArrayMapNode(ownerID, count, nodes) {
    this.ownerID = ownerID;
    this.count = count;
    this.nodes = nodes;
    this.arrayMapNode.prototype.get = function(shift, keyHash, key, notSetValue) {
        if (keyHash === undefined) {
            keyHash = hash(key);
        }
        var idx = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
        var var bit = (1 << ((shift === 0 ? keyHash : keyHash >>> shift) & MASK)));
        var var bitmap = this.bitmap;
        var return (bitmap & bit) === 0 ? notSetValue : this.nodes[popCount(bitmap & (bit - 1))].get(shift + SHIFT, keyHash, key, notSetValue);
    }

    function updateNode(node, ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
        var newCount = this.count;
        if (!node) {
            newCount++;
        } else if (!newNode) {
            newCount--;
            if (newCount < MIN_HASH_ARRAY_MAP_SIZE) {
                return packNodes(ownerID, nodes, newCount, idx);
            }
        }
        var isEditable = ownerID && ownerID === this.ownerID;
        var newNodes = setIn(nodes, idx, newNode, isEditable);
        if (isEditable) {
            this.count = newCount;
            this.nodes = newNodes;
        }
        return new HashArrayMapNode(ownerID, newCount, newNodes);
    }

Iteration

List.prototype.slice = function(begin, end) { 
  var size = this.size;
  if (wholeSlice(begin, end, size)) {
    return setListBounds(this, end, begin, size);
  }
  return new Iterator(function() {
    var value = values();
    return value === DONE ?
      iteratorDone() :
      iteratorValue(value++);
  });
}

List.prototype.__iterator = function(type, reverse) {
  var index = 0;
  var values = iterateList(this, reverse);
  return new Iterator(function()  {
    var value = values();
    return
      value === DONE ?
        iteratorDone() :
        iteratorValue(type, index++, value);
  });
}

List.prototype.__iterate = function(fn, reverse) {
  var index = 0;
  var values = iterateList(this, reverse);
  var value;
  while ((value = values()) !== DONE) {
    if (fn(value, index++, this) === false) {
      break;
    }
  }
  return index;
}

List.prototype.__ensureOwner = function(ownerID) {
  if (ownerID === this.__ownerID) {
    return this;
  }
  if (!ownerID) {
    this.__ownerID = ownerID;
    return this;
  }
  return makeList(this._origin, this._capacity, this._level, this._root, this._tail, ownerID,
  this.__hash);
}

function isList(maybeList) {
  return !!(maybeList &&
  maybeList[IS_LIST_SENTINEL]);
}

List.isList = isList;

var IS_LIST_SENTINEL = '@@@IMMUTABLE_LIST@@@';

ListPrototype = List.prototype;
ListPrototype[IS_LIST_SENTINEL] = true;
ListPrototype[DELETE] = ListPrototype.remove;
ListPrototype.setValue = MapPrototype.setValue;
ListPrototype.setValueIn = MapPrototype.setValueIn;
ListPrototype.set = MapPrototype.set;
ListPrototype.setIn = MapPrototype.setIn;
ListPrototype.merge = MapPrototype.merge;
ListPrototype.mergeIn = MapPrototype.mergeIn;
ListPrototype.mergeDeep = MapPrototype.mergeDeep;
ListPrototype.mergeDeepIn = MapPrototype.mergeDeepIn;
ListPrototype.asMutable = MapPrototype.asMutable;
ListPrototype.asImmutable = MapPrototype.asImmutable;
ListPrototype.wasAltered = MapPrototype.wasAltered;

VNode.prototype.removeBefore = function(ownerID, level, index) {
  if (index === level ? 1 << level : 0 ||
  this.array.length === 0) {
    return this;
  }
  var originIndex = (index >>> level) & MASK;
  if (originIndex >= this.array.length) {
    return new VNode([], ownerID);
  }
  var removingFirst =
  originIndex === 0;
  var newChild;
  if (level > 0) {
    var oldChild = this.array[originIndex];
    newChild = oldChild && oldChild.removeBefore(ownerID, level - SHIFT, index);
    if (newChild ===
    oldChild && removingFirst) {
      return this;
    }
  }
  if (removingFirst && !newChild) {
    return this;
  }
  var editable = editableVNode(this, ownerID);
  if (removingFirst) {
    for (var ii = 0;
    ii < originIndex; ii++) {
      editable.array[ii] = undefined;
    }
  }
  if (newChild) {
    editable.array[originIndex] = newChild;
  }
  return editable;
}

VNode.prototype.removeAfter = function(ownerID, level, index) {
  if (index === (level ? 1 << level : 0) ||
  this.array.length === 0) {
    return this;
  }
  var sizeIndex = ((index - 1) >>> level) & MASK;
  if (sizeIndex >= this.array.length) {
    return this;
  }
  var newChild;
  if (level > 0) {
    var oldChild = this.array[sizeIndex];
    newChild = oldChild && oldChild.removeAfter(ownerID, level - SHIFT, index);
    if (newChild ===
    oldChild && &
    level) {
      return this;
    }
  }
  var editable = editableVNode(this, ownerID);
  editable.array.splice(sizeIndex + 1);
  if (newChild) {
    editable.array[sizeIndex] = newChild;
  }
  return editable;
}

var DONE = {};

function iterateList(list, reverse) {
  var index = 0;
  var values = iterateList(list, reverse);
  return new Iterator(function()  {
    var value = values();
    return
      value === DONE ?
        iteratorDone() :
        iteratorValue(type, index++, value);
  });
}

function iterateNodeOrLeaf(node, level, offset) {
  if (level === 0 ?
    iterateLeaf(node, offset) :
    iterateNode(node, level, offset);}

function iterateLeaf(node, offset) {
  var array = offset === tailPos ?
  tail && tail.array : node && node.array;
  var from = offset > length ? 0 : offset;
  var to = offset - right - offset;
  if (to > SIZE) { 
    return;
  }
  var size = array.length;
  var value = array[offset];
  return value;
}

function iterateNode(node, level, offset) {
  var array = node && node.array;
  var from = offset > length ? 0 : offset;
  var to = offset - right - offset;
  if (to > SIZE) { 
    return;
  }
  var size = array.length;
  var value = array[offset];
  return value;
}

function iterateNodeOrLeaf(node, level, offset) {
  var array = node && node.array;
  var from = offset > length ? 0 : offset;
  var to = offset - right - offset;
  if (to > SIZE) { 
    return;
  }
  var size = array.length;
  var value = array[offset];
  return value;
}
return DONE;

var idx = reverse ? --to : from++;
values = iterateNodeOrLeaf(
  array
  && array[idx], level - SHIFT, offset + (idx << level)
  )
while (true);
}

var idx = reverse ? --to : from++;
values = iterateNodeOrLeaf(
  array
  && array[idx], level - SHIFT, offset + (idx << level)
  )
while (true);
}

function makeList(origin, capacity, level, root, ownerID, hash) {
  var list = Object.create(ListPrototype);
  list.size = capacity - origin;
  list.origin = origin;
  list.capacity = capacity;
  list.level = level;
  list.root = root;
  list.tail = tail;
  list.ownerID = ownerID;
  list.hash = hash;
  list.altered = false;
  return list;
}

function emptyList() {
  return EMPTY_LIST;
}

function updateList(list, index, value) {
  index = wrapIndex(list, index);

  if (index !== index) {
    return list;
  }

  if (index >= list.size || index < 0) {
    return list.withMutations(function(list) {
      index < 0 ?
        setListBounds(list, index).set(0, value) :
        setListBounds(list, 0, index + 1).set(index, value)
    });
  }

  index += list.origin;

  var newTail = list.tail;
  var newRoot = list.root;
  var didAlter = MakeRef(DID_ALTER);
  if (level > 0) {
    var lowerNode = node && node.array[idx];
    var newLowerNode = updateVNode(lowerNode, ownerID, level, index, value, didAlter);
    if (newLowerNode !== lowerNode) {
      return listNodeFor(list, newCapacity - 1);
    }
  }

  var newNode = editableVNode(node, ownerID);
  if (value === undefined) {
    newNode.array.pop();
  } else {
    newNode.array[idx] = value;
  }
  return newNode;
}

function editableVNode(node, ownerID) {
  if (ownerID && node && ownerID === node.ownerID) {
    return node;
  }
  return new VNode(node ? node.array.slice() : [], ownerID);
}

function listNodeFor(list, rawIndex) {
  if (rawIndex >= getTailOffset(list.capacity)) {
    return list.tail;
  }
  if (rawIndex < 1 << (list.level + SHIFT)) {
    var node = list.root;
    var level = list.level;
    while (node && level > 0) {
      node = node.array[(rawIndex >>> level) & MASK];
      level -= SHIFT;
    }
    return node;
  }

  var newLevel = list.level;
  var newRoot = list.root;
  var newOrigin = list.origin;
  var newCapacity = list.capacity;

  var oldOrigin = list.origin;
  var oldCapacity = list.capacity;
  var newOriginHas = nodeHas && idx < node.array.length;

  if (newOriginHas && & value === undefined) {
    return listNodeFor(list, rawIndex);
  }

  var newRootHas = nodeHas && node.array[idx];
  if (newRootHas !== node.array[idx]) {
    return listNodeFor(list, rawIndex);
  }

  var newNode = editableVNode(node, ownerID);
  if (value === undefined && idx === newNode.array.length - 1) {
    newNode.array.pop();
  }

  if ((didAlter.value) {
    return list;
  }

  if (list.ownerID) {
    list.root = newRoot;
    list.tail = newTail;
    list.hash = undefined;
    list.altered = true;
    return list;
  }

  return makeList(list.origin, list.capacity, list.level, newRoot, newTail);
level = newLevel; level > SHIFT; level -= SHIFT) {
        var idx = (oldTailOffset >>> level) & MASK;
        node = node.array[idx] = editableVNode(node.array[idx], owner);
      }
      node.array[(oldTailOffset >>>
        SHIFT) & MASK] = oldTail;
    }

    // If the size has been reduced, there's a chance the tail needs to be
    // trimmed.
    if (newCapacity < oldCapacity) {
      newTail = newTail && newTail.removeAfter(owner, 0, newCapacity);
    }

    // If the new origin is within the tail, then we do not need a root.
    if (newOrigin >=
      newTailOffset) {
      newOrigin -= newTailOffset;
      newCapacity -= newTailOffset;
      newLevel =
        SHIFT;
      newRoot = null;
      newTail = newTail && newTail.removeBefore(owner, 0, newOrigin);
    } else if (newOrigin > oldOrigin || newTailOffset <
      oldTailOffset) {
      offsetShift = 0;
      // Identify the new top root node of the subtree of the old root.
      while (newRoot) {
        var beginIndex = (newOrigin >>> newLevel) & MASK;
        if (beginIndex !==
          (newTailOffset >>> newLevel) & MASK) {
          break;
        }
        if (beginIndex) {
          offsetShift += (1 << newLevel) * beginIndex;
        }
        newLevel -= SHIFT;
        newRoot = newRoot.array[beginIndex];
      }

      // Trim the new sides of the new root.
      if (newRoot && newOrigin > oldOrigin) {
        newRoot =
          newRoot.removeBefore(owner, newLevel, newOrigin - offsetShift);
      }
      if (newRoot && newTailOffset <
        oldTailOffset) {
        newRoot = newRoot.removeAfter(owner, newLevel, newTailOffset - offsetShift);
      }
      if (offsetShift) {
        newOrigin -= offsetShift;
        newCapacity -= offsetShift;
      }
    }

    if (list.__ownerID) {
      list.size = newCapacity - newOrigin;
      list._origin = newOrigin;
      list._capacity =
        newCapacity;
      list._level = newLevel;
      list._root = newRoot;
      list._tail = newTail;
      list._hash = undefined;
      list.__altered = true;
      return list;
    }
    return makeList(newOrigin, newCapacity, newLevel,
      newRoot, newTail);
  }

  function mergeIntoListWith(list, merger, iterables) {
    var iters = [];
    var maxSize = 0;
    for (var ii = 0; ii < iterables.length; ii++) {
      var value = iterables[ii];
      var iter = IndexedIterable(value);
      if (iter.size > maxSize) {
        maxSize = iter.size;
      }
      if (!isIterable(value)) {
        iter = iter.map(function(v) {return fromJS(v)});
      }
      iters.push(iter);
    }
    if (maxSize > list.size) {
      list = list.setSize(maxSize);
    }
    return mergeIntoCollectionWith(list, merger, iters);
  }

  function getTailOffset(size) {
    return size < SIZE ? 0 : (((size - 1) >>> SHIFT) << SHIFT);
  }

  createClass(OrderedMap, Map);

    // @pragma Construction

    function OrderedMap(value) {
      return value === null || value === undefined ? emptyOrderedMap() :
        isOrderedMap(value) ? value :
          emptyOrderedMap().withMutations(function(map) {
            var iter = KeyedIterable(value);
            assertNotInfinite(iter.size);
            iter.forEach(function(v, k) {return map.set(k, v)});
          });
    }

    OrderedMap.of = function(/*...values*/) {
      return this(arguments);
    };

    OrderedMap.prototype.toString = function() {
      return this.__toString('OrderedMap {', '}');
    };

    // @pragma Access

    OrderedMap.prototype.get = function(k, notSetValue) {
      var index = this._map.get(k);
      return index !== undefined ? this._list.get(index)[1] : notSetValue;
    };

    // @pragma Modification

    OrderedMap.prototype.clear = function() {
      if (this.size === 0) {
        return this;
      }
      if (this.__ownerID) {
        this.size = 0;
        this._map.clear();
        this._list.clear();
        return this;
      }
      return emptyOrderedMap();
    };

    OrderedMap.prototype.set = function(k, v) {
      return updateOrderedMap(this, k, v);
    };

    OrderedMap.prototype.remove = function(k) {
      return updateOrderedMap(this, k, NOT_SET);
    };

    OrderedMap.prototype.wasAltered = function() {
      return this_map.wasAltered() || this_list.wasAltered();
    };

    OrderedMap.prototype._iterate = function(fn, reverse) {
      var thisS0 = this;
      this._list._iterate(fn, entry) {
        function(entry) {
          return entry & & fn(entry[1], entry[0],
            thisS0);
        };
    };

    OrderedMap.prototype._ensureOwner = function(ownerID) {
      if (ownerID === this._ownerID) {
        return this;
      }
      var newMap = this_map._ensureOwner(ownerID);
      var newList = this_list._ensureOwner(ownerID);
      if (!ownerID) {
        thisownerID = ownerID;
        this_map = newMap;
        this_list = newList;
      } else {
        return makeOrderedMap(newMap, newList, ownerID, this._hash);
      }
    };

    isOrderedMap(maybeOrderedMap) {
      return isMap(maybeOrderedMap) & & isOrdered(maybeOrderedMap);
    };

    OrderedMap.isOrderedMap = isOrderedMap;

    OrderedMap.prototype[IS_ORDERED_SENTINEL] =
  }

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```javascript
var stack = [];
var iterations = 0;
return new Iterator(function () {
  while (iterator) {
    var step
    flatSequence.__iteratorUncached = function (type, reverse) {
      var iterator = iterable.__iterator(type, reverse);

      !stopped;
    }
    flatDeep(iterable, 0);
    return iterations;
  }
}
else if (fn(v, useKeys ? k : iterations++, this$0) === false) {
  stopped = true;
}
return
{
  if (!depth || currentDepth < depth) && isIterable(v)) {
    flatDeep(v, currentDepth + 1);
  }

  var stopped = false;
  function flatDeep(iter, currentDepth) {
    var this$0 = this;
    iter.__iterate(function (v, k) {
      return iteratorDone();
    };
    skipSequence.__iterat...
makeSequence(iterable) {
    return Object.create(
      (isKeyed(iterable) ? KeyedSeq : SetSeq)
    ).prototype;
}

function cacheResultThrough() {
    if (this._iter.cacheResult) {
      this._iter.cacheResult();
      this.size = this._iter.size;
      return this;
    } else {
      return Seq.prototype.cacheResult.call(this);
    }
}

function defaultComparator(a, b) {
    return a > b ? 1 : a < b ? -1 : 0;
}

function forceIterator(keyPath) {
    var iter = getIterator(Iterable(keyPath)) || getIterator(keyPath);
    if (isArrayLike(keyPath)) {
      // Array might not be iterable in this environment, so we need a fallback
      // to our wrapped type.
      if (!isArrayLike(keyPath)) {
        throw new TypeError('Expected iterable or array-like: ' + keyPath);
      }
      iter = getIterator(Iterable(keyPath));
    }
    return iter;
}

createClass(Record, KeyedCollection);

function Record(defaultValues, name) {
    var hasInitialized;
    var RecordType = function Record(values) {
        if (values instanceof RecordType) {
          return values;
        } else {
          return new RecordType(values);
        } if (!hasInitialized) {
          hasInitialized = true;
          var keys = Object.keys(defaultValues);
          setProps(RecordTypePrototype, keys);
          RecordTypePrototype.size = keys.length;
          RecordTypePrototype._name = name;
          RecordTypePrototype._keys = keys;
          RecordType.prototype._defaultValues = defaultValues;
          this._map = Map(values);
        }
        // @pragma Access
        var RecordType = this.constructor;
        return RecordType._empty || (RecordType._empty = makeRecord(this, emptyMap()));
    };

    Record.prototype.remove = function(k) {
        if (!this.has(k)) {
          return this;
        } else {
          var newMap = this._map && this._map.remove(k);
          if (this.__ownerID || newMap === this._map) {
            return this;
          }
          return makeRecord(this, newMap);
        }
    };

    Record.prototype.removeIn = MapPrototype.removeIn;
    Record.prototype.merge = MapPrototype.merge;
    Record.prototype.mergeWith = MapPrototype.mergeWith;
    Record.prototype.mergeDeep = MapPrototype.mergeDeep;
    Record.prototype.mergeDeepWith = MapPrototype.mergeDeepWith;
    Record.prototype.update = MapPrototype.update;
    Record.prototype.updateIn = MapPrototype.updateIn;
    Record.prototype.asMutable = MapPrototype.asMutable;
    Record.prototype.asImmutable = MapPrototype.asImmutable;
}

function makeRecord(likeRecord, map, ownerID) {
    var record = Object.create(Object.getPrototypeOf(likeRecord));
    record._map = map;
    record.__ownerID = ownerID;
    return record;
}

function recordName(record) {
    return record._name ||
function makeSet(map, ownerID) {
  var set = Object.create(SetPrototype);
  set.size = map ? map.size : 0;
  set._map = map;
  set.__ownerID = ownerID;
  return set;
}

function emptySet() {
  return EMPTY_SET || (EMPTY_SET = makeSet(emptyMap()));
}

createClass(OrderedSet, Set);

function OrderedSet(value) {
  return value === null || value === undefined ? makeOrderedSet() : isOrderedSet(value) ? value : emptyOrderedSet().withMutations(function(set) {
    var iter = SetIterable(value);
    assertNotInfinite(iter.size);
    iter.forEach(function(v) {
      return set.add(v);
    });
  });
}

OrderedSet.of = function(/*...values*/) {
  return this(arguments);
}

OrderedSet.fromKeys = function(value) {
  return this(KeyedIterable(value).keySeq());
}

OrderedSet.prototype.toString = function() {
  return this.__toString('OrderedSet {', '}');
}

function isOrderedSet(maybeOrderedSet) {
  return isSet(maybeOrderedSet) && isOrdered(maybeOrderedSet);
}

OrderedSet.isOrderedSet = isOrderedSet;

var OrderedSetPrototype = OrderedSet.prototype;
OrderedSetPrototype[IS_ORDERED_SENTINEL] = true;

OrderedSetPrototype.__empty = emptyOrderedSet;
OrderedSetPrototype.__make = makeOrderedSet;

function makeOrderedSet(map, ownerID) {
  var set = Object.create(OrderedSetPrototype);
  set.size = map ? map.size : 0;
  set._map = map;
  set.__ownerID = ownerID;
  return set;
}

var EMPTY_ORDERED_SET;
function emptyOrderedSet() {
  return EMPTY_ORDERED_SET || (EMPTY_ORDERED_SET = makeOrderedSet(emptyOrderedMap()));
}

createClass(Stack, IndexedCollection);

function Stack(value) {
  return value === null || value === undefined ? emptyStack() : isStack(value) ? value : emptyStack().unshiftAll(value);
}

Stack.of = function(/*...values*/) {
  return this(arguments);
}

Stack.prototype.toString = function() {
  return this.__toString('Stack [', ']');
}

Stack.prototype.get = function(index, notSetValue) {
  var head = this._head;
  index = wrapIndex(this, index);
  while (head && index--) {
    head = head.next;
  }
  return head ? head.value : notSetValue;
}

Stack.prototype.peek = function() {
  return this._head && this._head.value;
}

Stack.prototype.push = function(/*...values*/) {
  if (arguments.length === 0) {
    return this;
  }
  var newSize = this.size + arguments.length;
  var head = this._head;
  for (var ii = arguments.length - 1; ii >= 0; ii--) {
    head = {
      value: arguments[ii],
      next: head
    };
  }
  if (this.__ownerID) {
    this.size = newSize;
    this._head = head;
    this.__hash = undefined;
    this.__altered = true;
    return this;
  }
  return makeStack(newSize, head);
}

Stack.prototype.pushAll = function(iter) {
  iter = IndexedIterable(iter);
  if (iter.size === 0) {
    return this;
  }
  assertNotInfinite(iter.size);
  var newSize = this.size;
  var head = this._head;
  iter.reverse().forEach(function(value) {
    newSize++;
    head = {
      value: value,
      next: head
    };
  });
  if (this.__ownerID) {
    this.size = newSize;
    this._head = head;
    this.__hash = undefined;
    this.__altered = true;
    return this;
  }
  return makeStack(newSize, head);
}

Stack.prototype.pop = function() {
  return this.slice(1);
}

Stack.prototype.unshift = function(/*...values*/) {
  return this.push.apply(this, arguments);
}

Stack.prototype.unshiftAll = function(iter) {
  return this.pushAll(iter);
}

Stack.prototype.shift = function() {
  return this.pop.apply(this, arguments);
}

Stack.prototype.clear = function() {
  if (this.size === 0) {
    return this;
  }
  if (this.__ownerID) {
    this.size = 0;
    this._head = undefined;
    this.__hash = undefined;
    this.__altered = true;
    return this;
  }
  return emptyStack();
}

Stack.prototype.pushAll = function(iter) {
  return this.pushAll(iter);
}

var resolvedBegin = resolveBegin(begin, end, this.size);
var resolvedEnd = resolveEnd(end, this.size);

if (resolvedEnd !== undefined) {
  if (resolvedEnd === this.size) {
    return super.slice(begin, end);
  }
  var newStart = resolvedEnd - resolvedBegin;
  var newEnd = resolvedBegin - begin;
  if (newStart !== newEnd) {
    var resolvedStr = IndexedCollection.prototype.slice.call(this, resolvedBegin, resolvedEnd);
    return super.slice(begin, end).concat(resolvedStr);
  }
  var resolvedStr = IndexedCollection.prototype.slice.call(this, resolvedBegin, resolvedEnd);
  return super.slice(begin, end).concat(resolvedStr);
}

if (resolvedBegin !== undefined) {
  var newStart = resolvedBegin;
  var newEnd = resolvedEnd;
  if (newStart !== newEnd) {
    var resolvedStr = IndexedCollection.prototype.slice.call(this, resolvedBegin, resolvedEnd);
    return super.slice(begin, end).concat(resolvedStr);
  }
  var resolvedStr = IndexedCollection.prototype.slice.call(this, resolvedBegin, resolvedEnd);
  return super.slice(begin, end).concat(resolvedStr);
}

if (resolvedBegin === undefined) {
  var newStart = resolvedEnd - resolvedBegin;
  var newEnd = resolvedBegin - begin;
  if (newStart !== newEnd) {
    var resolvedStr = IndexedCollection.prototype.slice.call(this, resolvedBegin, resolvedEnd);
    return super.slice(begin, end).concat(resolvedStr);
  }
  var resolvedStr = IndexedCollection.prototype.slice.call(this, resolvedBegin, resolvedEnd);
  return super.slice(begin, end).concat(resolvedStr);
}

var newStart = resolvedBegin;
var newEnd = resolvedEnd;
if (newStart !== newEnd) {
  var resolvedStr = IndexedCollection.prototype.slice.call(this, resolvedBegin, resolvedEnd);
  return super.slice(begin, end).concat(resolvedStr);
}

var newStart = resolvedBegin;
var newEnd = resolvedEnd;
if (newStart !== newEnd) {
  var resolvedStr = IndexedCollection.prototype.slice.call(this, resolvedBegin, resolvedEnd);
  return super.slice(begin, end).concat(resolvedStr);
}
function() {
    return reify(this, reverseFactory(this, false));
}

slice: function(begin, end) {
    return reify(this, sliceFactory(this, begin, end, false));
}

splice: function(index, removeNum /*, ...values*/) {
    var numArgs = arguments.length;
    removeNum = Math.max(removeNum || 0, 0); // If index is negative, it should resolve relative to the size of the
    // collection. However size may be expensive to compute if not cached, so only call count() if the number is in fact negative.
    index = resolveBegin(index, index < 0 ? this.count() : this.size);
    var spliced = this.slice(0, index);
    return reify(this, numArgs === 1 /* ? spliced */.
        spliced.concat(arrCopy(arguments, 2), this.slice(index + removeNum)));
}

findLastIndex: function(predicate, context) {
    var entry = this.findLastEntry(predicate, context);
    return entry ? entry[0] : -1;
}

first: function() {
    return this.get(0);
}

flatten: function(depth) {
    return reify(this, flattenFactory(this, depth, false));
}

get: function(index, notSetValue) {
    index = wrapIndex(this, index);
    return (index < 0 || this.size === Infinity ||
        this.size !== undefined && index > this.size) ?
        notSetValue :
        this.find(function(_, key) { return key === index }, undefined, notSetValue);
}

has: function(index) {
    index = wrapIndex(this, index);
    return index >= 0 && (this.size !== undefined ?
        this.size === Infinity || index < this.size :
        this.indexOf(index) !== -1
      );
}

interpose: function(separator) {
    return reify(this, interposeFactory(this, separator));
}

interleave: function(/*...iterables*/) {
    var iterables = [this].concat(arrCopy(arguments));
    var zipped = zipWithFactory(this.toSeq(), IndexedSeq.of, iterables);
    var interleaved = zipped.flatten(true);
    if (zipped.size) {
        interleaved.size = zipped.size * iterables.length;
    }
    return reify(this, interleaved);
}

keySeq: function() {
    return Range(0, this.size);
}

last: function() {
    return this.get(-1);
}

skipWhile: function(predicate, context) {
    return reify(this, skipWhileFactory(this, predicate, context, false));
}

zip: function(/*, ...iterables */) {
    var iterables = [this].concat(arrCopy(arguments));
    return reify(this, zipWithFactory(this, defaultZipper, iterables));
}

zipWith: function(zipper/*, ...iterables */) {
    var iterables = arrCopy(arguments);
    iterables[0] = this;
    return reify(this, zipWithFactory(this, zipper, iterables));
}

};

IndexedIterable.prototype[IS_INDEXED_SENTINEL] = true;

IndexedIterable.prototype[IS_ORDERED_SENTINEL] = true;

mixin(SetIterable, {
    get: function(value, notSetValue) {
        return this.has(value) ?
            value : notSetValue;
    },
    includes: function(value) {
        return this.has(value);
    },
    keySeq: function() {
        return this.valueSeq();
    } // #pragma Helper functions
});// Mixin subclasses
mixin(KeyedSeq, KeyedIterable.prototype);

mixin(IndexedSeq, IndexedIterable.prototype);

mixin(KeyedCollection, KeyedIterable.prototype);

mixin(IndexedCollection, IndexedIterable.prototype);

mixin(SetCollection, SetIterable.prototype);

mixin(Iterable.prototype.includes);

Iterator.prototype.contains =

mixin(KeyedCollection, KeyedIterable.prototype);

mixin(IndexedCollection, IndexedIterable.prototype);

mixin(SetSeq, SetIterable.prototype);

mixin(KeyedCollection, KeyedIterable.prototype);

mixin(IndexedCollection, IndexedIterable.prototype);

mixin(SetSeq, SetIterable.prototype);

mixin(Iterable.prototype.includes);

ES6 Collection methods (ES6 Array and Map)

get: function(value, notSetValue) {
    return this.has(value) ?
        value : notSetValue;
}

includes: function(value) {
    return this.has(value);
}

keySeq: function() {
    return this.valueSeq();
} // #pragma Helper functions

function keyMapper(v, k) {
    return k;
}

function entryMapper(v, k) {
    return [k, v];
}

not(predicate) {
    return function() {
        return !predicate.apply(this, arguments);
    }
}

neg(predicate) {
    return function() {
        return -predicate.apply(this, arguments);
    }
}

quoteString(value) {
    return typeof value === 'string' ? JSON.stringify(value) : String(value);
}

defaultZipper() {
    return arrCopy(arguments);
}

defaultNegComparator(a, b) {
    return a < b ? 1 : a > b ? -1 : 0;
}

function hashIterable(iterable) {
    if (iterable.size === Infinity) {
        return 0;
    }
    var ordered = isOrdered(iterable);
    var keyed = isKeyed(ordered);
    var var ordered = isOrdered(ordered);
    var var h = ordered ? 1 : 0;
    var var ordered = isOrdered(ordered);
function hashMerge(a, b) {
    return a ^ b + 0x9E3779B9 + (a << 6) + (a >> 2) | 0;
}

var Immutable =

  {Iterable: Iterable,

    Seq: Seq,
    Collection: Collection,
    Map: Map,
    OrderedMap: OrderedMap,
    List: List,
    Stack: Stack,
    Set: Set,
    OrderedSet: OrderedSet,
    Record: Record,
    Range: Range,
    Repeat: Repeat,

    is: is,
    fromJS: fromJS

  };

return Immutable();

}));


//////////////////
// WEBPACK FOOTER
// ./node_modules/immutable/dist/immutable.js
// module id = 168

module.exports =

/**
 * Checks if `string` contains Unicode symbols.
 *
 * @private
 * @param {string} string The string to inspect.
 * @returns {boolean} Returns `true` if a symbol is
 * found, else `false`.
 */
function hasUnicode(string) {
  return reHasUnicode.test(string);
}

module.exports = hasUnicode;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_hasUnicode.js
// module id = 171

var MapCache = require('./_MapCache');

/**
 * Creates a function that resolves the cache key for
 * storing the result based on the arguments provided to
 * the memoized function. By default, the first argument
 * provided to the memoized function is used as the cache
 * key. The cache is exposed as the `cache` property on the memoized
 * function. Its creation may be customized by replacing the
 * `_memoize.Cache` constructor with one whose instances implement the
 * 
 * `Map` method interface of `clear`, `delete`, `get`, `has`, and `set`.
 * Usage
 * `_.memoize.Cache = WeakMap;`
 * The function to resolve the cache key.
 */

function resolveFunction() {
  return new null & typeof resolver == 'function' ? function(x) { throw new TypeError(FUNC_ERROR_TEXT); } : null;
}

module.exports = resolveFunction;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/memoize.js
// module id = 172

var baseGetTag = require('./_baseGetTag'),
    isObject = require('./isObject');

/** `Object#toString` result references. */
var asyncTag = '[object AsyncFunction]',
    funcTag = '[object Function]',
    genTag = '[object

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othValue = other[index];\n\n if (customizer) {\n
var compared = isPartial\n
? customizer(othValue,
arrValue, index, other, array, stack)\n
: customizer(arrValue, othValue, index, array, other, stack);\n }\n if
(compared !== undefined) {\n
if (compared) {\n
continue;\n
}\n
result = false;\n
break;\n }\n //
Recursively compare arrays (susceptible to call stack limits).\n if (seen) {\n
if (!arraySome(other,
function(othValue, othIndex) {\n
if (!cacheHas(seen, othIndex) &&\n
(arrValue === othValue ||
equalFunc(arrValue, othValue, bitmask, customizer, stack))) {\n
return seen.push(othIndex);\n
}\n
})) {\n
result = false;\n
break;\n
}\n } else if (!(\n
arrValue === othValue ||\n
equalFunc(arrValue, othValue, bitmask, customizer, stack)\n
)) {\n
result = false;\n
break;\n }\n }\n
stack['delete'](array);\n stack['delete'](other);\n return result;\n}\n\nmodule.exports =
equalArrays;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/lodash/_equalArrays.js\n// module
id = 177\n// module chunks = 0","/**\n * A specialized version of `_.some` for arrays without support for iteratee\n
* shorthands.\n *\n * @private\n * @param {Array} [array] The array to iterate over.\n * @param {Function}
predicate The function invoked per iteration.\n * @returns {boolean} Returns `true` if any element passes the
predicate check,\n * else `false`.\n */\nfunction arraySome(array, predicate) {\n var index = -1,\n
length = array
== null ? 0 : array.length;\n\n while (++index < length) {\n if (predicate(array[index], index, array)) {\n
return
true;\n }\n }\n return false;\n}\n\nmodule.exports = arraySome;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/lodash/_arraySome.js\n// module id = 178\n// module chunks = 0","var baseIsArguments =
require('./_baseIsArguments'),\n isObjectLike = require('./isObjectLike');\n\n/** Used for built-in method
references. */\nvar objectProto = Object.prototype;\n\n/** Used to check objects for own properties. */\nvar
hasOwnProperty = objectProto.hasOwnProperty;\n\n/** Built-in value references. */\nvar propertyIsEnumerable =
objectProto.propertyIsEnumerable;\n\n/**\n * Checks if `value` is likely an `arguments` object.\n *\n * @static\n *
@memberOf _\n * @since 0.1.0\n * @category Lang\n * @param {*} value The value to check.\n * @returns
{boolean} Returns `true` if `value` is an `arguments` object,\n * else `false`.\n * @example\n *\n *
_.isArguments(function() { return arguments; }());\n * // => true\n *\n * _.isArguments([1, 2, 3]);\n * // => false\n
*/\nvar isArguments = baseIsArguments(function() { return arguments; }()) ? baseIsArguments : function(value) {\n
return isObjectLike(value) && hasOwnProperty.call(value, 'callee') &&\n !propertyIsEnumerable.call(value,
'callee');\n};\n\nmodule.exports = isArguments;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n//
./node_modules/lodash/isArguments.js\n// module id = 179\n// module chunks = 0","var root = require('./_root'),\n
stubFalse = require('./stubFalse');\n\n/** Detect free variable `exports`. */\nvar freeExports = typeof exports ==
'object' && exports && !exports.nodeType && exports;\n\n/** Detect free variable `module`. */\nvar freeModule =
freeExports && typeof module == 'object' && module && !module.nodeType && module;\n\n/** Detect the
popular CommonJS extension `module.exports`. */\nvar moduleExports = freeModule && freeModule.exports ===
freeExports;\n\n/** Built-in value references. */\nvar Buffer = moduleExports ? root.Buffer : undefined;\n\n/* Builtin method references for those with the same name as other `lodash` methods. */\nvar nativeIsBuffer = Buffer ?
Buffer.isBuffer : undefined;\n\n/**\n * Checks if `value` is a buffer.\n *\n * @static\n * @memberOf _\n * @since
4.3.0\n * @category Lang\n * @param {*} value The value to check.\n * @returns {boolean} Returns `true` if
`value` is a buffer, else `false`.\n * @example\n *\n * _.isBuffer(new Buffer(2));\n * // => true\n *\n *
_.isBuffer(new Uint8Array(2));\n * // => false\n */\nvar isBuffer = nativeIsBuffer || stubFalse;\n\nmodule.exports =
isBuffer;\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// ./node_modules/lodash/isBuffer.js\n// module id =
180\n// module chunks = 0","module.exports = function(module) {\r\n\tif(!module.webpackPolyfill)
{\r\n\t\tmodule.deprecate = function() {};\r\n\t\tmodule.paths = [];\r\n\t\t// module.parent = undefined by
default\r\n\t\tif(!module.children) module.children = [];\r\n\t\tObject.defineProperty(module, \"loaded\",
{\r\n\t\t\tenumerable: true,\r\n\t\t\tget: function() {\r\n\t\t\t\treturn
module.l;\r\n\t\t\t}\r\n\t\t});\r\n\t\tObject.defineProperty(module, \"id\", {\r\n\t\t\tenumerable: true,\r\n\t\t\tget:
function() {\r\n\t\t\t\treturn module.i;\r\n\t\t\t}\r\n\t\t});\r\n\t\tmodule.webpackPolyfill = 1;\r\n\t}\r\n\treturn
module;\r\n};\r\n\n\n\n//////////////////\n// WEBPACK FOOTER\n// (webpack)/buildin/module.js\n// module id =
181\n// module chunks = 0","var baseIsTypedArray = require('./_baseIsTypedArray'),\n baseUnary =
require('./_baseUnary'),\n nodeUtil = require('./_nodeUtil');\n\n/* Node.js helper references. */\nvar

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nodeIsTypedArray = nodeUtil && nodeUtil.isTypedArray; \n
nodeIsTypedArray(new Uint8Array); \n
var isTypedArray = nodeIsTypedArray ? baseUnary(nodeIsTypedArray) : baseIsTypedArray; \n
exports = isTypedArray;

isTypedArray \n
function matchesStrictComparable(value) {
  return function(object) {
    if (object == null) {
      return false;
    }
    return object[key] === srcValue &&
    (srcValue !== undefined || (key in Object(object)));
  };
}

exports = matchesStrictComparable;

function baseGet(object, path) {
  path = castPath(path, object);

  var index = 0,
      length = path.length;

  while (object != null && index < length) {
    object = object[toKey(path[index++])];
  }
  return (index && index == length) ? object : undefined;
}

exports = baseGet;

function castPath(value, object) {
  if (isArray(value)) {
    return value;
  }
  return isKey(value, object) ? [value] : stringToPath(toString(value));
}

exports = castPath;

/*<replacement>*/
var pna = require('process-nextick-args');
/*</replacement>*/

module.exports = Readable;

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var isArray = require('isarray');
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/*<replacement>*/
var Duplex;
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Readable.ReadableState = ReadableState;

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var EE =

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var isObject = require('./isObject');
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/**
 * Checks if `value` is classified as a typed array.

 * @static
 * @memberOf _
 * @since 3.0.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a typed array, else `false`.
 * @example
 *
 *
 *_.isTypedArray(new Uint8Array);
 * // => true
 *
 *_.isTypedArray(\n
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 *      }
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 *    };
 *}

 *exports = isStrictComparable;

 *function matchesStrictComparable(key, srcValue) {
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 *function isStrictComparable(value) {
 *    return function(object) {
 *      if (object == null) {
 *        return false;
 *      }
 *      return object[key] === srcValue &&
 *      (srcValue !== undefined || (key in Object(object)));
 *    };
 *}

 *exports = isStrictComparable;

 *function matchesStrictComparable(key, srcValue) {
 *  return function(object) {
 *    if (object == null) {
 *      return false;
 *    }
 *    return object[key] === srcValue &&
 *    (srcValue !== undefined || (key in Object(object)));
 *  };
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 Readable.ReadableState = ReadableState;
require('events').EventEmitter

var EElistenerCount = function (emitter, type) { return emitter.listeners(type).length; };

var OurUint8Array = global.Uint8Array

// function ()

function _uint8ArrayToBuffer(chunk) {
  return Buffer.from(chunk)
}

function _isUint8Array(obj) {
  return Buffer.isBuffer(obj) || obj instanceof OurUint8Array;
}

var util = require('core-util-is');
util.inherits = require('inherits');

var debugUtil = require('util');
var debug = void 0;
if (debugUtil && debugUtil.debuglog) {
  debug = debugUtil.debuglog('stream');
} else {
  debug = function () {};
}

var BufferList = require('./internal/streams/BufferList');
var destroyImpl = require('./internal/streams/destroy');
var Stream = require('./internal/streams/stream');
var Buffer = require('safe-buffer').Buffer;
var Duplex = require('./_stream_duplex');

function prependListener(emitter, event, fn) {
  if (!emitter._events || !emitter._events[event])
    emitter.on(event, fn);
  else if (isArray(emitter._events[event]))
    emitter._events[event].unshift(fn);
  else
    emitter._events[event] = [fn, emitter._events[event]];
}

function ReadableState(options, stream) {
  var readableHwm = options.readableHighWaterMark;
  var defaultHwm = this.objectMode ? 16 : 16 * 1024;

  if (hwm || hwm === 0) this.highWaterMark = hwm;
  else if (isDuplex && (readableHwm || readableHwm === 0))
    this.highWaterMark = readableHwm;
  else this.highWaterMark = defaultHwm;

  this.buffer = new BufferList();

  var hwm = options.highWaterMark;
  var readableHwm = options.readableHighWaterMark;
  var defaultHwm = this.objectMode ? 16 : 16 * 1024;
  if (hwm || hwm === 0) this.highWaterMark = hwm;
  else if (isDuplex && (readableHwm || readableHwm === 0))
    this.highWaterMark = readableHwm;
  else this.highWaterMark = defaultHwm;
  cast to int's.

  this.highWaterMark = Math.floor(this.highWaterMark);

  this.length = 0;
  this.pipes = null;
  this.pipesCount = 0;
  this.flowing = null;
  this.ended = false;
  this.endEmitted = false;
  this.reading = false;
  this.decoder = null;
  this.encoding = null;
  if (options.encoding) {
    if (!StringDecoder)
      StringDecoder = require('string_decoder/').StringDecoder;
    this.decoder = new StringDecoder(options.encoding);
  } else {
    this.decoder = new StringDecoder(options.encoding);
  }

  this.readableState = new ReadableState(options, stream);
}

function Readable(options) {
  if (!(this instanceof Readable))
    return new Readable(options);

  this._readableState = new ReadableState(options, this);

  this.readable = true;

  if (typeof options.read !== 'function')
    this._read = options.read;

  if (typeof options.destroy !== 'function')
    this._destroy = options.destroy;
}

require('events').EventEmitter

var EElistenerCount = function (emitter, type) { return emitter.listeners(type).length; };

var OurUint8Array = global.Uint8Array

// function ()

function _uint8ArrayToBuffer(chunk) {
  return Buffer.from(chunk)
}

function _isUint8Array(obj) {
  return Buffer.isBuffer(obj) || obj instanceof OurUint8Array;
}

var Stream = require('./internal/streams/stream');
var Buffer = require('safe-buffer').Buffer;
var Duplex = require('./_stream_duplex');

function prependListener(emitter, event, fn) {
  if (!emitter._events || !emitter._events[event])
    emitter.on(event, fn);
  else if (isArray(emitter._events[event]))
    emitter._events[event].unshift(fn);
  else
    emitter._events[event] = [fn, emitter._events[event]];
}
function maybeReadMore_(stream, state) {
  var len = state.length;
  while (!state.reading && !state.ended && state.length < state.highWaterMark) {
    var read = stream.read(0);
    if (len === state.length) // didn't get any data, stop spinning.
      break; else len = state.length;
  }
  state.reading = false;
  state.length = len;
}

// abstract method. to be overridden in
// specific implementation classes.
// call cb(err, data) where data is <= n in length.
// for virtual (non-string, non-buffer) streams, "length" can
// be somewhat arbitrary, and perhaps not very meaningful.
Readable.prototype._read = function(n) {
  this.emit('error', new Error('_read() is not implemented'));
};

Readable.prototype.pipe = function(dest, pipeOpts) {
  var src = this;
  var state = this._readableState;
  var stream = state.stream;
  var case = src._readableState;
  var switch (state.pipesCount) {
    case 0:
      state.pipes = dest;
      break;
    case 1:
      state.pipes = [state.pipes, dest];
      break;
    default:
      state.pipes.push(dest);
      break;
  }
  state.pipesCount += 1;
  if (dest.pipeCount === 1) dest.pipeCount += 1;
  var doEnd = (pipeOpts || pipeOpts.end !== false) && dest !== process.stdout &&
    dest !== process.stderr;

  var endFn = doEnd ? onend : unpipe;
  if (state.endEmitted) pna.nextTick(endFn);
  else dest.on('unpipe', onunpipe);
  function onunpipe(readable, unpipeInfo) {
    var unpipeInfo, onunpipe, unpipeInfo;
    if (readable === src) {
      if (unpipeInfo && unpipeInfo.hasUnpiped !== false) {
        unpipeInfo.hasUnpiped = true;
      }
    }
    function onend() {
      dest.end();
    }
    dest.on('drain', ondrain);
    var cleanedUp = false;
    function cleanup() {
      debug('cleanup');
      dest.removeListener('close', onclose);
      dest.removeListener('finish', onfinish);
      dest.removeListener('error', onerror);
      dest.removeListener('unpipe', onunpipe);
      src.removeListener('end', onend);
      src.removeListener('end', unpipe);
      src.removeListener('data', ondata);
      src.on('data', ondata);
      function ondata(chunk) {
        debug('ondata');
        increasedAwaitDrain = false;
        var ret = dest.write(chunk);
        if (false === ret && !increasedAwaitDrain) {
          if ((state.pipesCount === 1 && state.pipes === dest) ||
            state.pipesCount > 1 && indexOf(state.pipes, dest) !== -1) {
            debug('true write response, pause',
              'increasedAwaitDrain++');
            increasedAwaitDrain = true;
            src.pause();
          }
        }
      }
    }
  }
  function unpipe() {
    debug('unpipe');
    src.unpipe(dest);
  }
  // if the reader is waiting for a drain event from this
  // specific writer, then it would cause it to never start
  // flowing again.
  // So, if this is awaiting a drain, then we just call it now.
  // If we don't know, then assume that we are
  // waiting for one.
  if (state.awaitDrain && (dest.writableState || dest.needDrain))
    ondrain();
  // If the user pushes more data while we're writing to dest then we'll end up
  // in ondata again. However, we only want to increase awaitDrain once because
  // dest will only emit one 'drain' event for the multiple writes.
  // => Introduce a guard on increasing awaitDrain.
  var increasedAwaitDrain = false;
  src.on('data', ondata);
  function ondata(data) {
    debug('ondata');
    increasedAwaitDrain = false;
    var ret = dest.write(data);
    if (false === ret && !increasedAwaitDrain) {
      if (state.pipesCount === 1 && state.pipes === dest) {
        debug('true write response, pause',
          'increasedAwaitDrain++');
        increasedAwaitDrain = true;
        src.pause();
      }
    }
  }
  // tell the dest that it's being piped to another dest
  // start the flow if it hasn't been started already.
  // => Check whether 'dest' is
  // still a piping destination.
  if ((state.pipesCount === 1 && state.pipes === dest) ||
    state.pipesCount > 1 &&
    !indexOf(state.pipes, dest) !== -1) {
    debug('true write response, pause',
      'increasedAwaitDrain++');
    increasedAwaitDrain = true;
    src.pause();
  }
  // if the dest has an error, then stop piping into it.
  // however, don't suppress the throwing behavior for this.
  function onerror(err) {
    debug('onerror', err);
    unpipe();
    dest.removeListener('error', onerror);
    if (EElistenerCount(dest, 'error') !== 0) dest.emit('error', err);
  }
  // Make sure our error handler is attached before userland ones.
  prependListener(dest, 'error', onerror);
  // Both close and finish should trigger unpipe, but only once.
  function onclose() {
    dest.removeListener('finish', onfinish);
    unpipe();
    dest.once('close', onclose);
    function onfinish() {
      debug('finish', onfinish);
      unpipe();
      return dest;
    }
  }
  // if we're not piping anywhere, then do nothing.
  if (state.pipesCount === 0) return

  src.on('end', onend);
  dest.on('unpipe', onunpipe);
  function onunpipe(readable, unpipeInfo) {
    var unpipeInfo, onunpipe, unpipeInfo;
    if (readable === src) {
      if (unpipeInfo && unpipeInfo.hasUnpiped !== false) {
        unpipeInfo.hasUnpiped = true;
      }
    }
    function onend() {
      dest.end();
    }
    dest.on('drain', ondrain);
    var cleanedUp = false;
    function cleanup() {
      debug('cleanup');
      dest.removeListener('close', onclose);
      dest.removeListener('finish', onfinish);
      dest.removeListener('error', onerror);
      dest.removeListener('unpipe', onunpipe);
      src.removeListener('end', onend);
      src.removeListener('end', unpipe);
      src.removeListener('data', ondata);
      src.on('data', ondata);
      function ondata(data) {
        debug('ondata');
        increasedAwaitDrain = false;
        var ret = dest.write(data);
        if (false === ret && !increasedAwaitDrain) {
          if ((state.pipesCount === 1 && state.pipes === dest) ||
            state.pipesCount > 1 &&
            !indexOf(state.pipes, dest) !== -1) {
            debug('true write response, pause',
              'increasedAwaitDrain++');
            increasedAwaitDrain = true;
            src.pause();
          }
        }
      }
    }
  }
  function unpipe() {
    debug('unpipe');
    src.unpipe(dest);
  }
  // if the reader is waiting for a drain event from this
  // specific writer, then it would cause it to never start
  // flowing again.
  // So, if this is awaiting a drain, then we just call it now.
  // If we don't know, then assume that we are
  // waiting for one.
  if (state.awaitDrain && (dest.writableState || dest.needDrain))
    ondrain();
  // If the user pushes more data while we're writing to dest then we'll end up
  // in ondata again. However, we only want to increase awaitDrain once because
  // dest will only emit one 'drain' event for the multiple writes.
  // => Introduce a guard on increasing awaitDrain.
  var increasedAwaitDrain = false;
  src.on('data', ondata);
  function ondata(data) {
    debug('ondata');
    increasedAwaitDrain = false;
    var ret = dest.write(data);
    if (false === ret && !increasedAwaitDrain) {
      if (state.pipesCount === 1 && state.pipes === dest) {
        debug('true write response, pause',
          'increasedAwaitDrain++');
        increasedAwaitDrain = true;
        src.pause();
      }
    }
  }
  // tell the dest that it's being piped to another dest
  // start the flow if it hasn't been started already.
  // => Check whether 'dest' is
  // still a piping destination.
  if ((state.pipesCount === 1 && state.pipes === dest) ||
    state.pipesCount > 1 &&
    !indexOf(state.pipes, dest) !== -1) {
    debug('true write response, pause',
      'increasedAwaitDrain++');
    increasedAwaitDrain = true;
    src.pause();
  }
  // if the dest has an error, then stop piping into it.
  // however, don't suppress the throwing behavior for this.
  function onerror(err) {
    debug('onerror', err);
    unpipe();
    dest.removeListener('error', onerror);
    if (EElistenerCount(dest, 'error') !== 0) dest.emit('error', err);
  }
  // Make sure our error handler is attached before userland ones.
  prependListener(dest, 'error', onerror);
  // Both close and finish should trigger unpipe, but only once.
  function onclose() {
    dest.removeListener('finish', onfinish);
    unpipe();
    dest.once('close', onclose);
    function onfinish() {
      debug('finish', onfinish);
      unpipe();
      return dest;
    }
  }
  // if we're not piping anywhere, then do nothing.
  if (state.pipesCount === 0) return

this._writableState.errorEmitted = false; void function emitErrorNT(self, err) {
    self.emit('error', err);
}

window.onerror = function() {
    return new ErrorNT('error', err);
};

window.onerror = function() {
    return new ErrorNT('error', err);
};

window.onerror = function() {
    return new ErrorNT('error', err);
};

var apply = Function.prototype.apply;

// DOM APIs, for completeness

exports.setTimeout = function() {
    return new Timeout(apply.call(setTimeout, scope, arguments),
        clearTimeout);
};

setTimeout = function() {
    return new Timeout(apply.call(setTimeout, scope, arguments),
        clearTimeout);
};

setInterval = function() {
    return new Timeout(apply.call(setInterval, scope, arguments),
        clearInterval);
};

clearTimeout = function() {
    clearTimeout(itemId);
    itemId = 0;
};

setImmediate = (typeof self !== "undefined" && self.setImmediate) ||
        (typeof global !== "undefined" && global.setImmediate) ||
        (this && this.setImmediate);

clearImmediate = (typeof self !== "undefined" && self.clearImmediate) ||
        (typeof global !== "undefined" && global.clearImmediate) ||
        (this && this.clearImmediate);

Buffer = require('safe-buffer').Buffer;

isEncoding = Buffer.isEncoding || function (encoding) {
    encoding = '' + encoding;
    switch (encoding && encoding.toLowerCase()) {
        case 'hex': case 'utf8': case 'utf-8': case 'ascii':
        case 'binary': case 'base64': case 'ucs2': case 'ufts':
        case 'utf16le': case 'utf-16le':
        case 'raw': return true;
        default:
        return false;
    }
};

normalizeEncoding = function(enc) {
    var nenc = _normalizeEncoding(enc);
    if (typeof nenc !== 'string' && (Buffer.isEncoding === isEncoding || !isEncoding(enc))) throw new Error('Unknown encoding: ' + enc);
    return nenc || enc;
};

StringDecoder provides an interface for efficiently splitting a series of
buffers into a series of
JS strings without breaking apart multi-byte// characters.

```
StringDecoder = StringDecoder;

function StringDecoder(encoding) {
  this.encoding = normalizeEncoding(encoding);
  var nb;
  switch (this.encoding) {
    case 'utf16le':
      this.text = utf16Text;
      this.end = utf16End;
      nb = 4;
      break;
    case 'utf8':
      this.fillLast = utf8FillLast;
      nb = 4;
      break;
    case 'base64':
      this.text = base64Text;
      this.end = base64End;
      nb = 3;
      break;
    default:
      this.write = simpleWrite;
      this.end = simpleEnd;
      this.lastNeed = 0;
      this.lastTotal = 0;
      this.lastChar = Buffer.allocUnsafe(nb);
      \n    }
  }

  // Attempts to complete a partial non-UTF-8 character using bytes from a Buffer.
  this.fillLast = function (buf) {
    \n    
    var r;
    var i;
    if (this.lastNeed) {
      r = this.fillLast(buf);
      if (r !== undefined) return this.text(buf, i);
    }
  }

  // For UTF-8, a replacement character is added when ending on a partial
  // character.
  function utf8FillLast(buf) {
    var nb = utf8CheckIncomplete(this, buf, i);
    if (nb >= 0) {
      if (nb > 0) {
        if (nb === 2) nb = 0;
        else this.lastNeed -= nb - 3;
      }
      return nb;
    }
    return 0;
  }

  // Validates as many continuation bytes for a multi-byte UTF-8 character
  // as needed or are available. If we see a non-continuation byte where we expect
  // one, we \"replace\" the validated continuation bytes we've seen so far within a
  // single UTF-8 replacement character (\uффfd\uффfd\ufffd\ufffd), to match v8's
  // UTF-8 decoding behavior. The continuation byte check is included three times in the case
  // where all of the continuation bytes for a character exist in the same buffer.
  this.fillLast = function (buf) {
    if (this.lastNeed <= buf.length) {
      this.lastNeed -= buf.length;
    }
    this.lastChar.copy(buf, 0, this.lastNeed);
    return this.lastChar.toString(this.encoding, 0, this.lastTotal);
    return this.lastChar.toString(this.encoding, 0, this.lastTotal);
  }

  // Attempts to complete a partial non-UTF-8 character using bytes from a Buffer.
  function utf8CheckIncomplete(self, buf, i) {
    var j = i;
    var nb = utf8CheckByte(buf[j]);
    if (nb >= 0) {
      if (nb > 0) {
        if (nb === 2) nb = 0;
        else self.lastNeed -= nb - 3;
      }
      return nb;
    }
    return 0;
  }

  // Checks at most 3 bytes at the end of a Buffer in order to detect an incomplete
  // codepoint.
  function utf8CheckExtraBytes(self, buf, p) {
    if (buf.length - p <= 1) return 0;
    var nb = utf8CheckByte(buf[p]);
    if (nb >= 0) {
      if (nb > 0) {
        if (nb === 2) nb = 0;
        else self.lastNeed -= nb - 3;
      }
      return nb;
    }
    return 0;
  }

  // Checks the type of a UTF-8 byte, whether it's ASCII, a leading byte,
  // or a continuation byte. If an invalid byte is detected, -2 is returned.
  function utf8CheckByte(byte) {
    if (byte <= 0x7F) return 0;
    if (byte >= 0xC0) {
      if (byte <= 0xDF) return 1;
      if (byte <= 0xEF) return 2;
      if (byte <= 0xBF) return 3;
      return 3;
    }
    return -2;
  }

  // Checks the number of bytes available, we need to check if we end on a leading/high
  // surrogate. In that case, we need to wait for the next two bytes in order to decode the last character properly.
  function utf8End(buf) {
    var r = buf && buf.length ? this.write(buf) : '';
    if (this.lastNeed) return r + this.text(buf, i);
    return r;
  }

  // UTF-16LE typically needs two bytes per character, but even if we have an even\n  // number of bytes available, we need to check if we end on a leading/high\n  // surrogate. In that case, we need to wait for the next two bytes in order to decode the last character properly.
  function utf16Text(buf, i) {
    var total = utf16CheckIncomplete(this, buf, i);
    if (total > 0) {
      if (total > 1) this.lastNeed -= buf.length;
      this.lastChar.copy(buf, 0, total);
      return this.lastChar.toString(this.encoding, 0, this.lastTotal);
    }
    return buf.toString('utf16le', i);
  }

  // Advances the character's bytes buffered until the required\n  // number of bytes are available.
  function utf16CheckIncomplete(self, buf, i) {
    var total = 0;
    var end = buf.length - (total - this.lastNeed);
    var r = buf.toString('utf16le', i);
    if (r) {
      var c = r.charCodeAt(r.length - 1);
      if (c >= 0xD800 && c <= 0xDBFF) {
        this.lastNeed = 2;
        this.lastTotal = 4;
      }
    }
    return total;
  }

  // Attempts to complete a partial non-UTF-8 character using bytes from a Buffer.
  function utf16FillLast(buf) {
    if (buf.length - i) {
      this.lastNeed = 2;
      this.lastChar = Buffer.allocUnsafe(nb);
      this.lastChar.copy(buf, 0, this.lastNeed);
      return this.lastChar.toString(this.encoding, 0, this.lastTotal);
    }
    return buff;
  }
```

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```javascript
this.lastChar[0] = buf[buf.length - 2];
this.lastChar[1] = buf[buf.length - 1];
return r.slice(0, -1);
}
    }
    return r;
  }
  this.lastNeed = 1;
  this.lastTotal = 2;
  this.lastChar[0] = buf[buf.length - 1];
  return buf.toString('utf16le', i, buf.length - 1);
}

// For UTF-16LE we do not explicitly append special replacement characters if we
// end on a partial character, we simply let v8 handle that.
function utf16End(buf) {
  var r = buf && buf.length ? this.write(buf) : '';
  if (this.lastNeed) {
    var end = this.lastTotal - this.lastNeed;
    return r + this.lastChar.toString('utf16le', end, this.lastNeed);
  }
  return r;
}

function base64Text(buf, i) {
  var n = (buf.length - i) % 3;
  if (n === 0) return buf.toString('base64', i);
  this.lastNeed = 3 - n;
  this.lastTotal = 3;
  if (n === 1) {
    this.lastChar[0] = buf[buf.length - 1];
  } else {
    this.lastChar[0] = buf[buf.length - 2];
    this.lastChar[1] = buf[buf.length - 1];
  }
  return buf.toString('base64', i, buf.length - n);
}

function base64End(buf) {
  var r = buf && buf.length ? this.write(buf) : '';
  if (this.lastNeed) return r + this.lastChar.toString('base64', 0, 3 - this.lastNeed);
  return r;
}

// Pass bytes on through for single-byte encodings (e.g. ascii, latin1, hex)
function simpleWrite(buf) {
  return buf.toString(this.encoding);
}

function simpleEnd(buf) {
  return buf && buf.length ? this.write(buf) : '';
}


```

This is a JavaScript code snippet that includes functions for converting buffer data to different string formats like UTF-16LE, base64, and simple text. The code handles UTF-16LE and base64 encoding, including special characters for incomplete characters, and provides functions for writing buffers to strings in various formats. The code also includes comments explaining the purpose and behavior of each function.
require('inherits');

util.inherits(Transform, Duplex);

function afterTransform(err, data)
{
  var ts = this._transformState;
  ts.transforming = false;
  var cb = ts.writecb;

  if (cb)
  {
    return this.emit('error', new Error('write callback called multiple times'));
  }

  ts.writechunk = null;
  ts.writecb = null;

  if (data !== null) // single equals check for both 'null' and 'undefined'
    this.push(data);

  cb(err);

  var rs = this._readableState;
  rs.reading = false;

  if (rs.needReadable || rs.length < rs.highWaterMark)
  {
    this._read(rs.highWaterMark);
  }
}

function Transform(options) {
  if (!(this instanceof Transform)) return new Transform(options);

  Duplex.call(this, options);

  this._transformState = {
    afterTransform: afterTransform.bind(this),
    needTransform: false,
    transforming: false,
    writecb: null,
    writechunk: null,
    writeencoding: null
  };

  // start out asking for a readable event once data is transformed.
  this._transformState.ReadableState = { needReadable: true, // we have implemented the _read method, and done the other things
  // that Readable wants before the first _read call, so unset the
  // sync guard flag.
  this._ReadableState.sync = false;

  if (options) {
    if (typeof options.transform === 'function')
      this._transform = options.transform;

    if (typeof options.flush === 'function')
      this._flush = options.flush;
  }

  // When the writable side finishes, then
  // flush out anything remaining.
  this.on('finish', function() {
    this._transformState.needTransform = false;
  });

  // 'chunk' is an input
  this.on('data', function(chunk)
  {
    doChunk(this, data);
  });

  // doesn't matter what the args are here.

  this._readableState.needReadable = true;

  this._readableState.sync = false;

  this._readableState.needReadable = true;

  this._readableState.needReadable = true;

  this._transformState.needTransform = false;

  if (this._transformState.needTransform)
  {
    return Duplex.prototype.push.call(this, chunk, encoding);
  }

  // if there's nothing in the write buffer, then that means
  // nothing more will ever be provided
  if (this._writableState.length)
    throw new Error('Calling transform done when ws.length != 0');

  // if (stream._writableState.length) throw new Error('Calling transform done when ws.length != 0');

  // when still transforming
  if (stream._transformState.transforming)
  {
    throw new Error('Calling transform done when still transforming');
  }

  // when still transforming
  return stream.push(null);
}

// return stream.push(null);

// WEBPACK FOOTER
// module id = 192 // module chunks = 0

// WEBPACK FOOTER
// module id = 193 // module chunks = 0

// WEBPACK FOOTER
// module id = 194 // module chunks = 0
//
(optsLength, fnLength, isAsync) {
  var length, utfif = (isNaN(optsLength)) ? 0 : Math.max(fnLength, Math.min(1, utfif));
  if (optsLength !== false) { return false; }
  return toPosInt(optsLength);
}


//////////////////
// WEBPACK FOOTER
// ./node_modules/memoizee/lib/resolve-length.js

function toPosInt(length) {
  if (isNaN(length)) {
    throw new Error("Invalid length");
  }
  return Math.max(0, length);
}


// WEBPACK FOOTER //
// ./node_modules/es5-ext/function/_define-length.js

function defineLength(fn, length) {
  length = Math.max(0, length);
  if (fn.length === length) return fn;
  if (fn.propertyDescriptor && fn.propertyDescriptor.value === length) return fn;
  throw new Error("Invalid length");
}


// WEBPACK FOOTER //
// ./node_modules/es5-ext/object/assign/index.js

Object.assign = require("./valid-assign");


// WEBPACK FOOTER //
// ./node_modules/es5-ext/object/map.js

module.exports = isPromise;

function isPromise(obj) {
  return !!obj && (typeof obj === 'object' || typeof obj === 'function') && typeof obj.then === 'function';
}


// WEBPACK FOOTER //
// ./node_modules/is-promise/index.js

import YAML from "@kyleshockey/js-yaml"

export const parseYamlConfig = (yaml, system) => {
  try {
    return YAML.safeLoad(yaml)
  } catch(e) {
    if (system) {
      system.errActions.newThrownErr( new Error(e) )
    }
    return {}
  }
}


// WEBPACK FOOTER //
// ./src/core/plugins/configs/helpers.js

'use strict';

var Schema = require('../schema');

module.exports = new Schema({
  include: [require('./json')]
});
does not support schema-specific tag resolution restrictions. So, this schema is not such strict as defined in the YAML specification. It allows numbers in binary notation, use 'Null' and 'NULL' as 'null', etc.

```javascript
'use strict';

var Schema = require('../schema');

module.exports = new Schema({
  include: [require('./failsafe')],
  implicit: [require('../type/null'), require('../type/bool'), require('../type/int'), require('../type/float')]
});
```

```
export const UPDATE_CONFIGS = "configs_update"
export const TOGGLE_CONFIGS = "configs_toggle"
```

```
// Update the configs, with a merge (not deep)
export function update(configName, configValue) {
  return {
    type: UPDATE_CONFIGS,
    payload: { [configName]: configValue },
  }
}
```

```
// Toggle's the config, by name
export function toggle(configName) {
  return {
    type: TOGGLE_CONFIGS,
    payload: configName,
  }
}
```

```
// WEBPACK FOOTER
// ./src/core/plugins/configs/actions.js
```

```
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/schema/json.js
```

```
module.exports = require('./_interopRequireDefault(_defineProperty);
```

```
// WEBPACK FOOTER
// ./node_modules/core-js/library/fn/get-iterator.js
```

```
module.exports = function (done, value) {
  return { value: value, done: !!done }
};
```

```
module.exports = function (it) {
  if (typeof it != 'function') throw TypeError(it + ' is not a function!');
  return it;
};
```

```
module.exports = function (Constructor, NAME, next) {
  Constructor.prototype = create(IteratorPrototype, { next: descriptor(1, next) });
  setToStringTag(Constructor, NAME + '

function _interopRequireDefault(_defineProperty):

```
// module id = 260
// module chunks = 0

var toInteger = require('./_to-integer');
var defined = require('./_defined');

module.exports = function repeat(count) {
  var str = String(defined(this));
  var res = '';
  var n = toInteger(count);
  if (n < 0 || n == Infinity) throw RangeError("Count can't be negative");
  for (;n > 0; (n >>>= 1) && (str += str)) if (n & 1) res += str;
  return res;
};

module.exports = function startsWith(searchString /* , position */) {
  var that = context(this, searchString, 'startsWith');
  var index = toLength(Math.min(arguments.length > 1 ? arguments[1] : undefined, that.length));
  var search = String(searchString);
  return $startsWith
    ? $startsWith.call(that, search, index)
    : that.slice(index, index + search.length) === search;
};
require('./_meta').KEY; var $fails = require('./_fails'); var shared = require('./_shared'); var setToStringTag = require('./_set-to-string-tag'); var uid = require('./_uid'); var wks = require('./_wks'); var wksExt = require('./_wks-ext'); var wksDefine = require('./_wks-define'); var enumKeys = require('./_enum-keys'); var isArray = require('./_is-array'); var anObject = require('./_an-object'); var isObject = require('./_is-object'); var toObject = require('./_to-object'); var toPrimitive = require('./_to-primitive'); var createDesc = require('./_property-desc'); var _create = require('./_object-create'); var gOPNExt = require('./_object-gopn-ext'); var $GOPD = require('./_object-gopd'); var SDP = require('./_object-gopd'); var $keys = require('./_object-keys'); var gOPD = $GOPD.f; var dP = SDP.f; var gOPN = gOPNExt.f; var $Symbol = global.Symbol; var $JSON = global.JSON; var _stringify = $JSON && $JSON.stringify;

HIDDEN = wks('_hidden');

TO_PRIMITIVE = wks('toPrimitive');

var isEnum = {}.propertyIsEnumerable;

var SymbolRegistry = shared('symbol-registry');

var AllSymbols = shared('op-symbols');

var OPSymbols = shared('symbols');

var ObjectProto = Object[PROTOTYPE];

USE_NATIVE = typeof $Symbol == 'function';

var QUOBJECT = global.QObject;

// Don't use setters in Qt Script, https://github.com/zloirock/core-js/issues/173

var $defineProperty = function defineProperty(it, key, D) {
  if (it === ObjectProto) $defineProperty(OPSymbols, key, D);
  anObject(it);
  key = toPrimitive(key, true);
  anObject(D);
  if (has(AllSymbols, key)) {
    if (!D.enumerable) {
      if (!has(it, HIDDEN)) dP(it, HIDDEN, createDesc(1, {}));
      it[HIDDEN][key] = true;
    } else {
      if (has(it, HIDDEN)) it[HIDDEN][key] = false;
      D = create(D, { enumerable: createDesc(0, false) });
    }
    return setSymbolDesc(it, key, D);
  } return dP(it, key, D);
};

var $defineProperties = function defineProperties(it, P) {
  anObject(it);
  var keys = enumKeys(P = toIObject(P));
  var i = 0;
  var l = keys.length;
  var key;
  while (l > i) $defineProperty(it, key = keys[i++], P[key]);
  return it;
};

var $create = function create(it, P) {
  return P === undefined ? _create(it) : $defineProperties(_create(it), P);
};

var $propertyIsEnumerable = function propertyIsEnumerable(key) {
  var E = isEnum.call(this, key = toPrimitive(key, true));
  if (this === ObjectProto && has(AllSymbols, key) && !has(OPSymbols, key)) return false;
  return E || !has(this, key) || !has(AllSymbols, key) || has(this, HIDDEN) && has[HIDDEN][key] ? E : true;
};

var $getOwnPropertyDescriptor = function getOwnPropertyDescriptor(it, key) {
  var P = gOPD(toIObject(it), key);
  if (P === undefined ? _create(it) : SDescribeProperties(create(it), P));
  var $propertyIsEnumerable = function propertyIsEnumerable(key) {
  var E = isEnum.call(this, key = toPrimitive(key, true));
  if (this === ObjectProto && has(AllSymbols, key) && !has(OPSymbols, key)) return false;
  return E || !has(this, key) || !has(AllSymbols, key) || has(this, HIDDEN) && has[HIDDEN][key] ? E : true;
  }

  var D = gOPD(it, key);
  return $getOwnPropertyDescriptor(it, key);
};

var $getOwnPropertyNames = function getOwnPropertyNames(it) {
  var keys = enumKeys(ObjectProto, key, protoDesc); [dp];
  var wrap = function (tag) {
    var sym = AllSymbols[tag] || _create($Symbol[PROTOTYPE]);
    sym._k = tag;
    return sym;
  };

  var isSymbol = function isSymbol(it) {
    return typeof it == 'symbol';
  };

  var $defineProperty = function defineProperty(it, key, D) {
    if (it === ObjectProto) $defineProperty(OPSymbols, key, D);
    anObject(it);
    key = toPrimitive(key, true);
    anObject(D);
    if (has(AllSymbols, key)) {
      if (!D.enumerable) {
        if (!has(it, HIDDEN)) dP(it, HIDDEN, createDesc(1, {}));
        it[HIDDEN][key] = true;
      } else {
        if (has(it, HIDDEN)) it[HIDDEN][key] = false;
        D = create(D, { enumerable: createDesc(0, false) });
      }
      return setSymbolDesc(it, key, D);
    } return dP(it, key, D);
  };
MapBookKeeping(mapResult, keyPrefix, mapFunction, mapContext) {
  this.result = mapResult;
  this.keyPrefix = keyPrefix;
  this.func = mapFunction;
  this.context = mapContext;
  this.count = 0;
}

MapBookKeeping.prototype.destructor = function () {
  this.result = null;
  this.keyPrefix = null;
  this.func = null;
  this.context = null;
  this.count = 0;
}
PooledClass.addPoolingTo(MapBookKeeping, fourArgumentPooler);

function mapIntoWithKeyPrefixInternal(children, array, prefix, func, context) {
  var mappedChild = func.call(context, children, array, prefix, func, context);
  var result = array; 
  if (result.push(mappedChild)) {
    func(result, children, array, prefix, func, context);
  } else if (mappedChild != null) {
    func(result, children, array, prefix, func, context);
  }
}

function mapChildren(children, func, context) {
  if (children == null) {
    return children;
  }
  var result = [];
  mapIntoWithKeyPrefixInternal(children, result, null, func, context);
  return result;
}

function toAbsoluteChildren(children) {
  var result = [];
  mapIntoWithKeyPrefixInternal(children, result, null, emptyFunction.thatReturnsArgument);
  return result;
}

var ReactChildren = { 
  forEach: forEachChildren, 
  map: mapChildren, 
  mapIntoWithKeyPrefixInternal: mapIntoWithKeyPrefixInternal, 
  count: countChildren, 
  toArray: toArray
};

module.exports = ReactChildren;
Klass.call(instance, a1, a2, a3);\n  return instance; } else {\n    return new Klass(a1, a2, a3); }\n}\n
var fourArgumentPooler = function(a1, a2, a3, a4) {\n  var Klass = this;\n  if (Klass.instancePool.length) {\n    var instance = Klass.instancePool.pop();\n    Klass.call(instance, a1, a2, a3, a4);\n    return instance; } else {\n    return new Klass(a1, a2, a3, a4); }\n}\n
var standardReleaser = function(instance) {\n  var Klass = this;\n  !(instance instanceof Klass) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Trying to release an instance into a pool of a different type.'); : _prodInvariant('25'); \n  instance.destructor();\n  if (Klass.instancePool.length < Klass.poolSize) {\n    Klass.instancePool.push(instance);\n  }\n}\n
var DEFAULT_POOLER = oneArgumentPooler;\n
var fourArgumentPooler = function(a1, a2, a3, a4) {\n  var Klass = this;\n  if (Klass.instancePool.length) {\n    var instance = Klass.instancePool.pop();\n    Klass.call(instance, a1, a2, a3, a4);\n    return instance; } else {\n    return new Klass(a1, a2, a3, a4); }\n}\n
var standardReleaser = function(instance) {\n  var Klass = this;\n  !(instance instanceof Klass) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Trying to release an instance into a pool of a different type.'); : _prodInvariant('25'); \n  instance.destructor();\n  if (Klass.instancePool.length < Klass.poolSize) {\n    Klass.instancePool.push(instance);\n  }\n}\n
var DEFAULT_POOL_SIZE = 10;\n
var pooler = new Klass(a1, a2, a3, a4);\n
var standardReleaser = function (instance) {
  var Klass = this;
  !(instance
instanceof Klass) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Trying to release an instance into a pool of a different type.') : _prodInvariant('25') : void 0;
instance.destructor();
}\n
module.exports = PooledClass;
traverseAllChildrenImpl(child, nextName, callback, traverseContext);
  if (iteratorFn) {
    var var iteratorFn = getIteratorFn(children);
    if (iteratorFn) {
      var var iterator = iteratorFn.call(children);
      var var step;
      if (iteratorFn !== children.entries) {
        var var ii = 0;
        while ((!_step = iterator.next()).done) {
          child = _step.value;
          nextName = nextNamePrefix + getComponentKey(child, ii++);
          subtreeCount += traverseAllChildrenImpl(child, nextName, callback, traverseContext);
        }
      } else {
        var var mapsAsChildrenAddendum = "\n if (ReactCurrentOwner.current) {
          var var mapsAsChildrenOwnerName = ReactCurrentOwner.current.getName();
          if (mapsAsChildrenOwnerName) {
            mapsAsChildrenAddendum = ' Check the render method of `' + mapsAsChildrenOwnerName + '`.\n          }
        }
        if (process.env.NODE_ENV !== 'production') {
          var var mapsAsChildrenAddendum = '';
          if (ReactCurrentOwner.current) {
            var var mapsAsChildrenOwnerName = ReactCurrentOwner.current.getName();
            if (mapsAsChildrenOwnerName) {
              mapsAsChildrenAddendum = ' Check the render method of `' + mapsAsChildrenOwnerName + '`.\n            }
          }
        }
        process.env.NODE_ENV !== 'production' ? warning(didWarnAboutMaps, 'Using Maps as children is not yet fully supported. It is an ' + 'experimental feature that might be removed. Convert it to a `+ sequence / iterable of ' + 'keyed ReactElements` instead.\n        }\n    }
  } else {
    var iteratorFn = getIteratorFn(children);
    if (iteratorFn) {
      var var iterator = iteratorFn.call(children);
      var var step;
      if (iteratorFn !== children.entries) {
        var var ii = 0;
        while ((!_step = iterator.next()).done) {
          child = _step.value;
          nextName = nextNamePrefix + getComponentKey(child, ii++);
          subtreeCount += traverseAllChildrenImpl(child, nextName, callback, traverseContext);
        }
      } else {
        if (process.env.NODE_ENV !== 'production') {
          var var mapsAsChildrenAddendum = '';
          if (ReactCurrentOwner.current) {
            var var mapsAsChildrenOwnerName = ReactCurrentOwner.current.getName();
            if (mapsAsChildrenOwnerName) {
              mapsAsChildrenAddendum = ' Check the render method of `' + mapsAsChildrenOwnerName + '`.\n            }
          }
        }
        process.env.NODE_ENV !== 'production' ? warning(didWarnAboutMaps, 'Using Maps as children is not yet fully supported. It is an ' + 'experimental feature that might be removed. Convert it to a ` + ' + sequence / iterable of ' + 'keyed ReactElements` instead.\n        }\n    }
  }

  return subtreeCount;
}
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```javascript
'use strict';

/**
 * Escape and wrap key so it is safe to use as a reactid
 * @param {string} key to be escaped.
 * @return {string} the escaped key.
 */

function escape(key) {
  var escapeRegex = /\[=:\]/g;
  var escaperLookup = {
    '=': '=0',
    ':': '=2'
  };
  var escapedString = ('' + key).replace(escapeRegex, function (match) {
    return escaperLookup[match];
  });

  return '$' + escapedString;
}

/**
 * Unescape and unwrap key for human-readable display
 * @param {string} key to unescape.
 * @return {string} the unescaped key.
 */
function unescape(key) {
  var unescapeRegex = /(=0|=2)/g;
  var unescaperLookup = {
    '=0': '=',
    '=2': ':'
  };
  var keySubstring = key[0] === '.' && key[1] === '$' ? key.substring(2) : key.substring(1);

  return ('' + keySubstring).replace(unescapeRegex, function (match) {
    return unescaperLookup[match];
  });
}

var KeyEscapeUtils = {
  escape: escape,
  unescape: unescape
};

module.exports = KeyEscapeUtils;

```

---

```javascript

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```
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```javascript
(isRequired) { if (props[propName] === null) { return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required and its value is `null`.'); }

return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required and its value is `undefined`.'); }

if (props[propName] === null) {
  return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required in `' + componentName + '`, but its value is `null`.');
}

if (props[propName] === null) {
  return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required in `' + componentName + '`, but its value is `undefined`.');
}

var chainedCheckType = checkType.bind(null, false);

chainedCheckType.isRequired = checkType.bind(null, true);

if (props[propName] === null) {
  return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required in `' + componentName + '`, but its value is `null`.');
}

if (props[propName] === null) {
  return new PropTypeError('The ' + location + ' `' + propFullName + '` is marked as required in `' + componentName + '`, but its value is `undefined`.');
}

return null;
}

return validate(props, propName, componentName, location, propFullName);

function createPrimitiveTypeChecker(expectedType) {
  function validate(props, propName, componentName, location, propFullName) {
    var propValue = props[propName];
    var propType = getPropType(propValue);
    if (propType !== expectedType) {
      return new PropTypeError('Invalid ' + location + ' `' + propFullName + '` of type `' + expectedType + ` supplied to ` + componentName + ` expected `' + expectedType + `.');
    }
    return null;
  }
  return createChainableTypeChecker(validate);
}

function createAnyTypeChecker() {
  return createChainableTypeChecker(emptyFunction.thatReturnsNull);
}

function createArrayOfTypeChecker(typeChecker) {
  function validate(props, propName, componentName, location, propFullName) {
    var propValue = props[propName];
    if (!Array.isArray(propValue)) {
      var propType = getPropType(propValue);
      return new PropTypeError('Invalid ' + location + ' `' + propFullName + '` of type `' + propType + ` supplied to ` + componentName + ` expected an array.');
    }
    for (var i = 0; i < propValue.length; i++) {
      var error = typeChecker(propValue, i, componentName, location, propFullName + '[' + i + ']', ReactPropTypesSecret);
      if (error instanceof Error) {
        return error;
      }
    }
    return null;
  }
  return createChainableTypeChecker(validate);
}

function createElementTypeChecker() {
  function validate(props, propName, componentName, location, propFullName) {
    var propValue = props[propName];
    if (!isValidElement(propValue)) {
      var propType = getPropType(propValue);
      return new PropTypeError('Invalid ' + location + ' `' + propFullName + '` of type `' + propType + ` supplied to ` + componentName + ` expected a single ReactElement.');
    }
    return null;
  }
  return createChainableTypeChecker(validate);
}

function createInstanceTypeChecker(expectedClass) {
  function validate(props, propName, componentName, location, propFullName) {
    if (!(props[propName] instanceof expectedClass)) {
      var expectedClassName = expectedClass.name || ANONYMOUS;
      var actualClassName = getClassName(props[propName]);
      return new PropTypeError('Invalid ' + location + ' `' + propFullName + '` of type `' + expectedType + ` supplied to ` + componentName + ` expected instance of `' + expectedClassName + `.');
    }
    return null;
  }
  return createChainableTypeChecker(validate);
}

function createEnumTypeChecker(expectedValues) {
  if (!Array.isArray(expectedValues)) {
    process.env.NODE_ENV !== 'production' ? warning(false, 'Invalid argument supplied to oneOf, expected an instance of array.') : void 0;
    return function(validate(props, propName, componentName, location, propFullName) {
      if (!isArrayOf(expectedValues, props[propName], componentName, location, propFullName) || (props[propName] instanceof expectedClass)) {
        var propValue = props[propName];
        for (var i = 0; i < expectedValues.length; i++) {
          if (is(propValue, expectedValues[i])) {
            propValue = JSON.stringify(expectedValues[i]);
            return propValue;
          }
        }
        return new PropTypeError('Invalid ' + location + ' `' + propFullName + '` of value `' + propValue + ` supplied to ` + componentName + ` expected one of ` + expectedValues + `.');
      }
      return createChainableTypeChecker(validate);
    });
  }
  return function(validate(props, propName, componentName, location, propFullName) {
    if (!isArrayOf(expectedValues, props[propName], componentName, location, propFullName) || (props[propName] instanceof expectedClass)) {
      var propValue = props[propName];
      for (var i = 0; i < expectedValues.length; i++) {
        if (is(propValue, expectedValues[i])) {
          var propValue = JSON.stringify(expectedValues[i]);
          return propValue;
        }
      }
      return new PropTypeError('Invalid ' + location + ' `' + propFullName + '` of value `' + propValue + ` supplied to ` + componentName + ` expected one of ` + expectedValues + `.');
      }
      return createChainableTypeChecker(validate);
    });
  }
  return function validate(props, propName, componentName, location, propFullName) {
    if (typeof typeChecker !== 'function') {
      return new PropTypeError('Property `' + propFullName + ` of component ` + componentName + ` has invalid PropType notation inside objectOf.');
    }
    return validate(props, propName, componentName, location, propFullName);
  }
```

}\n
for (var key in propValue) {\n
if (propValue.hasOwnProperty(key)) {\n
var error =
typeChecker(propValue, key, componentName, location, propFullName + '.' + key, ReactPropTypesSecret);\n
if (error instanceof Error) {\n
return error;\n
}\n
}\n
}\n
return null;\n }\n return
createChainableTypeChecker(validate);\n }\n\n function createUnionTypeChecker(arrayOfTypeCheckers) {\n if
(!Array.isArray(arrayOfTypeCheckers)) {\n
process.env.NODE_ENV !== 'production' ? warning(false, 'Invalid
argument supplied to oneOfType, expected an instance of array.') : void 0;\n
return
emptyFunction.thatReturnsNull;\n }\n\n for (var i = 0; i < arrayOfTypeCheckers.length; i++) {\n
var checker
= arrayOfTypeCheckers[i];\n
if (typeof checker !== 'function') {\n
warning(\n
false,\n
'Invalid
argument supplied to oneOfType. Expected an array of check functions, but ' +\n
'received %s at index %s.',\n
getPostfixForTypeWarning(checker),\n
i\n
);\n
return emptyFunction.thatReturnsNull;\n
}\n
}\n\n function validate(props, propName, componentName, location, propFullName) {\n
for (var i = 0; i <
arrayOfTypeCheckers.length; i++) {\n
var checker = arrayOfTypeCheckers[i];\n
if (checker(props,
propName, componentName, location, propFullName, ReactPropTypesSecret) == null) {\n
return null;\n
}\n
}\n\n
return new PropTypeError('Invalid ' + location + ' `' + propFullName + '` supplied to ' + ('`' +
componentName + '`.'));\n }\n return createChainableTypeChecker(validate);\n }\n\n function
createNodeChecker() {\n function validate(props, propName, componentName, location, propFullName) {\n
if
(!isNode(props[propName])) {\n
return new PropTypeError('Invalid ' + location + ' `' + propFullName + '`
supplied to ' + ('`' + componentName + '`, expected a ReactNode.'));\n
}\n
return null;\n }\n return
createChainableTypeChecker(validate);\n }\n\n function createShapeTypeChecker(shapeTypes) {\n function
validate(props, propName, componentName, location, propFullName) {\n
var propValue = props[propName];\n
var propType = getPropType(propValue);\n
if (propType !== 'object') {\n
return new
PropTypeError('Invalid ' + location + ' `' + propFullName + '` of type `' + propType + '` ' + ('supplied to `' +
componentName + '`, expected `object`.'));\n
}\n
for (var key in shapeTypes) {\n
var checker =
shapeTypes[key];\n
if (!checker) {\n
continue;\n
}\n
var error = checker(propValue, key,
componentName, location, propFullName + '.' + key, ReactPropTypesSecret);\n
if (error) {\n
return
error;\n
}\n
}\n
return null;\n }\n return createChainableTypeChecker(validate);\n }\n\n function
createStrictShapeTypeChecker(shapeTypes) {\n function validate(props, propName, componentName, location,
propFullName) {\n
var propValue = props[propName];\n
var propType = getPropType(propValue);\n
if
(propType !== 'object') {\n
return new PropTypeError('Invalid ' + location + ' `' + propFullName + '` of type `' +
propType + '` ' + ('supplied to `' + componentName + '`, expected `object`.'));\n
}\n
// We need to check all
keys in case some are required but missing from\n
// props.\n
var allKeys = assign({}, props[propName],
shapeTypes);\n
for (var key in allKeys) {\n
var checker = shapeTypes[key];\n
if (!checker) {\n
return new PropTypeError(\n
'Invalid ' + location + ' `' + propFullName + '` key `' + key + '` supplied to `' +
componentName + '`.' +\n
'\\nBad object: ' + JSON.stringify(props[propName], null, ' ') +\n
'\\nValid
keys: ' + JSON.stringify(Object.keys(shapeTypes), null, ' ')\n
);\n
}\n
var error = checker(propValue,
key, componentName, location, propFullName + '.' + key, ReactPropTypesSecret);\n
if (error) {\n
return
error;\n
}\n
}\n
return null;\n }\n\n return createChainableTypeChecker(validate);\n }\n\n function
isNode(propValue) {\n switch (typeof propValue) {\n
case 'number':\n
case 'string':\n
case 'undefined':\n
return true;\n
case 'boolean':\n
return !propValue;\n
case 'object':\n
if (Array.isArray(propValue))
{\n
return propValue.every(isNode);\n
}\n
if (propValue === null || isValidElement(propValue)) {\n
return true;\n
}\n\n
var iteratorFn = getIteratorFn(propValue);\n
if (iteratorFn) {\n
var iterator
= iteratorFn.call(propValue);\n
var step;\n
if (iteratorFn !== propValue.entries) {\n
while (!(step =
iterator.next()).done) {\n
if (!isNode(step.value)) {\n
return false;\n
}\n
}\n
}
else {\n
// Iterator will provide entry [k,v] tuples rather than values.\n
while (!(step =
iterator.next()).done) {\n
var entry = step.value;\n
if (entry) {\n
if (!isNode(entry[1])) {\n
return false;\n
}\n
}\n
}\n
}\n
} else {\n
return false;\n
}\n\n
return true;\n
default:\n
return false;\n }\n }\n\n function isSymbol(propType, propValue) {\n // Native
Symbol.\n if (propType === 'symbol') {\n
return true;\n }\n\n // 19.4.3.5

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Symbol.prototype[@@toStringTag] === 'Symbol' |
if (propValue[@@toStringTag] === 'Symbol') |
return true;

// Fallback for non-spec compliant Symbols which are polyfilled.
if (typeof Symbol === 'function' && propValue instanceof Symbol) |
return true;

// Equivalent of `typeof` but with special handling for array and regexp.
function getPropType(propValue) |
var propType = typeof propValue;
if (Array.isArray(propValue)) |
return 'array';

if (propValue instanceof RegExp) |
// Old webkits (at least until Android 4.0) return `function` rather than `object` for typeof a RegExp.
// We'll normalize this here so that /bla/ passes Props.object.
return 'object';

if (isSymbol(propType, propValue)) |
return 'symbol';

if (propType === 'object') |
if (propValue instanceof Date) |
return 'date';

else if (propValue instanceof RegExp) |
return 'regexp';

return propType;

// Returns a string that is postfixed to a warning about an invalid type.
// For example, `undefined` or `of type array`.
function function getPostfixForTypeWarning(value) |
var type = getPreciseType(value);
switch (type) {
  case 'array':
  case 'object':
    return 'an ' + type;
  case 'boolean':
  case 'date':
  case 'regexp':
    return 'a ' + type;
  default:
    return type;
}

// Returns class name of the object, if any.
function getClassName(propValue) |
if (!propValue.constructor || !propValue.constructor.name) |
return ANONYMOUS;

return propValue.constructor.name;

ReactPropTypes = checkPropTypes;
ReactPropTypes.PropTypes = ReactPropTypes;

return ReactPropTypes;
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```

(function(process.env.NODE_ENV !== 'production') {
  var warning = require('fbjs/lib/warning');
})(process.env.NODE_ENV !== 'production')

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module.exports = '15.6.2';

```
Delegate methods ====

```javascript
/**
 * Invoked when the component is initially created and about to be mounted.
 *
 * This may have side effects, but any external subscriptions or data created
 * by this method must be cleaned up in `componentWillUnmount`.
 *
 * @optional
 */
componentWillMount: 'DEFINE_MANY',

/**
 * Invoked when the component has been mounted and has a DOM representation.
 *
 * If you need it, you are probably looking for `componentWillReceiveProps`.
 *
 * @optional
 */
componentDidMount: 'DEFINE_MANY',

/**
 * Invoked before the component receives new props.
 *
 * Use this as an opportunity to react to a prop transition by updating the
 * state using `this.setState`.
 *
 * @param {object} nextProps
 * @optional
 */
componentWillReceiveProps: 'DEFINE_MANY',

/**
 * Invoked while deciding if the component should be updated as a result of
 * receiving new props, state and/or context.
 *
 * Use this as an opportunity to `return false` when you're certain that the
 * transition to the new props/state/context will not require a component
 * update.
 *
 * @param {object} nextProps
 * @param {?object} nextState
 * @param {?object} nextContext
 * @return {boolean} True if the component should update.
 * @optional
 */
shouldComponentUpdate: 'DEFINE_ONCE',

/**
 * Invoked when the component is about to update due to a transition from
 * `this.props`, `this.state` and `this.context` to `nextProps`, `nextState`
 * and `nextContext`.
 *
 * Use this as an opportunity to perform preparation before an update occurs.
 *
 * NOTE: You **cannot** use `this.setState()` in this method.
 *
 * @param {object} nextProps
 * @param {?object} nextState
 * @param {?object} nextContext
 * @param {ReactReconcileTransaction} transaction
 * @optional
 */
componentWillUpdate: 'DEFINE_MANY',

/**
 * Invoked when the component's DOM representation has been updated.
 *
 * Use this as an opportunity to operate on the DOM when the component has
 * been updated.
 *
 * NOTE: There is no `componentDidUnmount` since your component will have been
 * destroyed by that point.
 *
 * @optional
 */
componentWillUnmount: 'DEFINE_MANY',

/**
 * Replacement for (deprecated) `componentWillMount`.
 *
 * @optional
 */
UNSAFE_componentWillMount: 'DEFINE_MANY',

/**
 * Replacement for (deprecated) `componentWillReceiveProps`.
 *
 * @optional
 */
UNSAFE_componentWillReceiveProps: 'DEFINE_MANY',

/**
 * Replacement for (deprecated) `componentWillUpdate`.
 *
 * @optional
 */
UNSAFE_componentWillUpdate: 'DEFINE_MANY',

// Advanced methods

/**
 * Similar to ReactClassInterface but for static methods.
 *
 * var ReactClassStaticInterface = { ...
 */
```

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specification keys to special processing functions.

* Although these are declared like instance properties in the specification
  * when defining classes using `React.createClass`, they are actually static
  * and are accessible on the constructor instead of the prototype. Despite
    * being static, they must be defined outside of the
  * `"statics"` key under
  * which all other static methods are defined.

```javascript
var RESERVED_SPEC_KEYS = {
  displayName: function(Constructor, displayName) {
    Constructor.displayName = displayName;
  },
  mixins: function(Constructor, mixins) {
    if (mixins) {
      for (var i = 0; i < mixins.length; i++) {
        mixSpecIntoComponent(Constructor, mixins[i]);
      }
    }
  },
  childContextTypes: function(Constructor, contextTypes) {
    if (process.env.NODE_ENV !== 'production') {
      validateTypeDef(Constructor, contextTypes, 'childContextTypes');
    }
    Constructor.contextTypes = _assign(
      {},
      Constructor.contextTypes
    );
  },
  contextTypes: function(Constructor, contextTypes) {
    if (process.env.NODE_ENV !== 'production') {
      validateTypeDef(Constructor, contextTypes, 'contextTypes');
    }
    Constructor.contextTypes = _assign(
      {},
      Constructor.contextTypes
    );
  },
  statics: function(Constructor, statics) {
    mixStaticSpecIntoComponent(Constructor, statics);
  },
  autobind: function()
};
```

* Special case getDefaultProps which should move into statics but requires
  * automatic merging.

```javascript
var RESERVED_SPEC_KEYS = {
  displayName: function(Constructor, displayName) {
    Constructor.displayName = displayName;
  },
  mixins: function(Constructor, mixins) {
    if (mixins) {
      for (var i = 0; i < mixins.length; i++) {
        mixSpecIntoComponent(Constructor, mixins[i]);
      }
    }
  },
  childContextTypes: function(Constructor, childContextTypes) {
    if (process.env.NODE_ENV !== 'production') {
      validateTypeDef(Constructor, childContextTypes, 'childContextTypes');
    }
    Constructor.childContextTypes = _assign(
      {},
      Constructor.childContextTypes
    );
  },
  contextTypes: function(Constructor, contextTypes) {
    if (process.env.NODE_ENV !== 'production') {
      validateTypeDef(Constructor, contextTypes, 'contextTypes');
    }
    Constructor.contextTypes = _assign(
      {},
      Constructor.contextTypes
    );
  },
  statics: function(Constructor, statics) {
    mixStaticSpecIntoComponent(Constructor, statics);
  },
  autobind: function()
};
```

`ReactClassInterface` hasOwnProperty(name) = null; // Disallow overriding of base class methods unless explicitly allowed.

```javascript
var specPolicy = 'DEFINE_MANY_MERGED';
```

* ReactClassInterface: You are attempting to define `.+` on `%s` from your class specification. Ensure that your method names `.+` do not overlap with React methods.`.+` `name` `.+` // Disallow defining methods more than once unless explicitly allowed.

```javascript
if (isAlreadyDefined) {
  _invariant(
    specPolicy === 'DEFINE_MANY_MERGED',
    'ReactClassInterface: You are attempting to define 
      +on "%s" that is already defined, name)
}```
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these methods in the spec.

```javascript
RESERVED_SPEC_KEYS.mixins(Constructor, spec.mixins); 
```

for (var name in spec) {

if (!spec.hasOwnProperty(name)) {

    }

for (var name in spec) {

    if (name === MIXINS_KEY) {
        // We have already handled mixins in a special case above.
        continue;
    }

    var property = spec[name];

    var isAlreadyDefined = proto.hasOwnProperty(name);

    validateMethodOverride(isAlreadyDefined, name);

    if (RESERVED_SPEC_KEYS.hasOwnProperty(name)) {
        RESERVED_SPEC_KEYS[name](Constructor, property);
    } else {
        // Setup methods on prototype:
    }

    RESERVED_SPEC_KEYS.mixins(Constructor, spec.mixins);

    for (var name in spec) {
      if (!spec.hasOwnProperty(name)) {
        continue;
      }

      if (name === MIXINS_KEY) {
        // We have already handled mixins in a special case above.
        continue;
      }

      var property = spec[name];
      var isAlreadyDefined = proto.hasOwnProperty(name);

      validateMethodOverride(isAlreadyDefined, name);

      if (RESERVED_SPEC_KEYS.hasOwnProperty(name)) {
        RESERVED_SPEC_KEYS[name](Constructor, property);
      } else {
        // These cases should already be caught by validateMethodOverride.
        _invariant(!isFunction && !isReactClassMethod && !spec.autobind !== false, 
          if (shouldAutoBind) {
            autoBindPairs.push(name, property);
            proto[name] = property;
          } else {
            if (isAlreadyDefined) {
              var specPolicy = ReactClassInterface.hasOwnProperty(name) 
                isReactClassMethod && 
                (specPolicy === 'DEFINE_MANY' || specPolicy === 'DEFINE_MANY_MERGED' ) 
                'ReactClass: Unexpected spec policy %s for key %s', specPolicy, name );
              _invariant(!isReactClassMethod && specPolicy, name);
            }
          }
      }
    }
}

function mixStaticSpecIntoComponent(Constructor, statics) {
    if (!statics) {
      return;
    }

    for (var name in statics) {
      var property = statics[name];
      if (!statics.hasOwnProperty(name)) {
        continue;
      }

      var isReserved = name in RESERVED_SPEC_KEYS;
      _invariant(!isReserved, 'ReactClass: You are attempting to define a reserved property, `%s`, that shouldn\'t be on the 

      'constructor.
          var alreadyDefined = name in Constructor;
      if (isAlreadyDefined) {
        var specPolicy = ReactClassStaticInterface.hasOwnProperty(name) ? 
          ReactClassStaticInterface[name] : null;
      }

      _invariant(specPolicy === 'DEFINE_MANY_MERGED', 'ReactClass: You are attempting to define `+name` on your component more than once. This conflict may be due to a mixin.

      var Constructor = createMergedResultFunction(Constructor, property);

      Constructor[name] = createMergedResultFunction(Constructor[name], property);

      Constructor[name] = name;

      Constructor = mergeIntoWithNoDuplicateKeys(Constructor, statics) {
        if (!statics) {
          return;
        }

        for (var name in statics) {
          var property = statics[name];
        }

        continue;
      }

      var isReserved = name in RESERVED_SPEC_KEYS;
      _invariant(!isReserved, 'ReactClass: Unexpected static property `%s` %s', specPolicy, name );

      function mixStaticSpecIntoComponent(Constructor, statics) {
        if (!statics) {
          return;
        }

        for (var name in statics) {
          var property = statics[name];
        }

        continue;
      }

      var Constructor = createMergedResultFunction(Constructor, property) return;

      Constructor[name] = createMergedResultFunction(Constructor[name], property) return;

      Constructor[name] = name;

      Constructor = mergeIntoWithNoDuplicateKeys(Constructor, statics);

      if (!statics) {
        return;
      }

      for (var name in statics) {
        var property = statics[name];
      }

      continue;
    }

    return Constructor;
  }

  // mostly lifted from Map

  // todo: remove this when ES6 Map is available
  function mergeIntoWithNoDuplicateKeys(one, two) {
    _invariant(one && two && typeof one === 'object' && typeof two === 'object', 'mergeIntoWithNoDuplicateKeys(): Cannot merge non-objects.' );

    for (var key in two) {
      if (two.hasOwnProperty(key)) {
        _invariant(one[key] !== undefined, 'mergeIntoWithNoDuplicateKeys(): Tried to merge two objects with the same key: `%s`. This conflict may be due to a mixin.

        var Constructor = one;
        if (Constructor) {
          var Constructor = two;
        }
      }

      Constructor[name] = createMergedResultFunction(Constructor[name], property);

      Constructor[name] = name;

      Constructor = mergeIntoWithNoDuplicateKeys(Constructor, statics) {
        if (!statics) {
          return;
        }

        for (var name in statics) {
          var property = statics[name];
        }

        continue;
      }

      return Constructor;
    }

    return one;
  }

  /**
   * Creates a function that invokes two functions and merges
   * their return values.
   *
   * @param {function} one One function to invoke.
   * @param {function} two Second function to invoke.
   * @return {function} Function that invokes the two argument functions.
   * @private
   */
  function createMergedResultFunction(one, two) {
    return function mergedResult() {
      var a
one.apply(this, arguments);
    var b = two.apply(this, arguments);
    if (a == null) {
        return b;
    } else if (b == null) {
        return c;
    } else {
        mergeIntoWithNoDuplicateKeys(c, a);
    }

    function createChainedFunction(one, two) {
        return function chainedFunction() {
            one.apply(this, arguments);
            two.apply(this, arguments);
        };
    }

    function bindAutoBindMethod(component, method) {
        var boundMethod = method.bind(component);
        if (process.env.NODE_ENV !== 'production') {
            boundMethod.__reactBoundContext = component;
            boundMethod.__reactBoundMethod = method;
            boundMethod.__reactBoundArguments = null;
        }
        var componentName = component.constructor.displayName;
        var _bind = boundMethod.bind;
        boundMethod.bind = function(newThis) {
            var _len = arguments.length,
                args = Array(_len > 1 ? _len - 1 : 0);
            for (var _key = 1; _key < _len; _key++) {
                args[_key - 1] = arguments[_key];
            }

            // User is trying to bind an autobound method; we effectively will ignore
            // the value of "this" that the user is trying to use, so let's warn.
            if (newThis != null) {
                warning(false, '%s: You are binding a component method to the component. ' +
                    'React does this for you automatically in a high-performance ' +
                    'way, so you can safely remove this call. See %s', componentName,
                    componentName);
            } else if (!args.length) {
                warning(false, '%s: React does this for you automatically in a high-performance ' +
                    'way, so you can safely remove this call. See %s', componentName,
                    componentName);
                return boundMethod;
            }
            var reboundMethod = _bind.apply(boundMethod, arguments);
            reboundMethod.__reactBoundContext = component;
            reboundMethod.__reactBoundMethod = method;
            reboundMethod.__reactBoundArguments = args;
        };

        var pairs = component.__reactAutoBindPairs;
        for (var i = 0; i < pairs.length; i += 2) {
            var autoBindKey = pairs[i];
            var method = pairs[i + 1];
            component[autoBindKey] = bindAutoBindMethod(component, method);
        }
    }

    var ReactClassComponent = function() {};
    _assign(ReactClassComponent.prototype, ReactComponent.prototype,
        ReactClassMixin
    );

    function ReactComponent() {
        this.__isMounted = true;
    }

    function ReactClassMixin() {
        function replaceState(newState, callback) {
            this.updater.enqueueReplaceState(this, newState, callback);
        }

        function isMounted() {
            if (process.env.NODE_ENV !== 'production') {
                warning(this.__didWarnIsMounted,
                    '%s: isMounted is deprecated. Instead, make sure to clean up ' +
                    'subscriptions and pending requests in componentWillUnmount ' +
                    'to prevent memory leaks.', (this.constructor &&
                    this.constructor.displayName) || this.name || 'Component');
            }
            return !!this.__isMounted;
        }
    }

    function ReactClassComponent() {
        var ReactClassMixin = { /* TODO: This will be deprecated because state should always keep a consistent * type signature and the only use case for this, is to avoid that. */
            replaceState: function(newState, callback) {
                this.updater.enqueueReplaceState(this, newState, callback);
            }
        };

        _assign(ReactClassComponent.prototype, ReactComponent.prototype,
            ReactClassMixin
        );

        function createComponentClass(spec) {
            var Component = ReactClassComponent;
            Component.prototype = ReactClassComponent;
            Component.displayName = 'Component';
            Component.isRequired = true;
            return Component;
        }

        createComponentClass(s); /* * Create a composite component class given a class specification. * See https://facebook.github.io/react/docs/top-level-api.html#react.createClass */
    }
@public\n */\n function createClass(spec) {\n // To keep our warnings more understandable, we'll use a little
hack here to\n // ensure that Constructor.name !== 'Constructor'. This makes sure we don't\n // unnecessarily
identify a class without displayName as 'Constructor'.\n var Constructor = identity(function(props, context,
updater) {\n
// This constructor gets overridden by mocks. The argument is used\n
// by mocks to assert on
what gets mounted.\n\n
if (process.env.NODE_ENV !== 'production') {\n
warning(\n
this instanceof
Constructor,\n
'Something is calling a React component directly. Use a factory or ' +\n
'JSX instead.
See: https://fb.me/react-legacyfactory'\n
);\n
}\n\n
// Wire up auto-binding\n
if
(this.__reactAutoBindPairs.length) {\n
bindAutoBindMethods(this);\n
}\n\n
this.props = props;\n
this.context = context;\n
this.refs = emptyObject;\n
this.updater = updater || ReactNoopUpdateQueue;\n\n
this.state = null;\n\n
// ReactClasses doesn't have constructors. Instead, they use the\n
// getInitialState and
componentWillMount methods for initialization.\n\n
var initialState = this.getInitialState ? this.getInitialState() :
null;\n
if (process.env.NODE_ENV !== 'production') {\n
// We allow auto-mocks to proceed as if they're
returning null.\n
if (\n
initialState === undefined &&\n
this.getInitialState._isMockFunction\n
)
{\n
// This is probably bad practice. Consider warning here and\n
// deprecating this convenience.\n
initialState = null;\n
}\n
}\n
_invariant(\n
typeof initialState === 'object' &&
!Array.isArray(initialState),\n
'%s.getInitialState(): must return an object or null',\n
Constructor.displayName || 'ReactCompositeComponent'\n
);\n\n
this.state = initialState;\n });\n
Constructor.prototype = new ReactClassComponent();\n Constructor.prototype.constructor = Constructor;\n
Constructor.prototype.__reactAutoBindPairs = [];\n\n injectedMixins.forEach(mixSpecIntoComponent.bind(null,
Constructor));\n\n mixSpecIntoComponent(Constructor, IsMountedPreMixin);\n
mixSpecIntoComponent(Constructor, spec);\n mixSpecIntoComponent(Constructor, IsMountedPostMixin);\n\n
// Initialize the defaultProps property after all mixins have been merged.\n if (Constructor.getDefaultProps) {\n
Constructor.defaultProps = Constructor.getDefaultProps();\n }\n\n if (process.env.NODE_ENV !== 'production')
{\n
// This is a tag to indicate that the use of these method names is ok,\n
// since it's used with createClass. If
it's not, then it's likely a\n
// mistake so we'll warn you to use the static property, property\n
// initializer or
constructor respectively.\n
if (Constructor.getDefaultProps) {\n
Constructor.getDefaultProps.isReactClassApproved = {};\n
}\n
if (Constructor.prototype.getInitialState) {\n
Constructor.prototype.getInitialState.isReactClassApproved = {};\n
}\n }\n\n _invariant(\n
Constructor.prototype.render,\n
'createClass(...): Class specification must implement a `render` method.'\n
);\n\n if (process.env.NODE_ENV !== 'production') {\n
warning(\n
!Constructor.prototype.componentShouldUpdate,\n
'%s has a method called ' +\n
'componentShouldUpdate(). Did you mean shouldComponentUpdate()? ' +\n
'The name is phrased as a
question because the function is ' +\n
'expected to return a value.',\n
spec.displayName || 'A component'\n
);\n
warning(\n
!Constructor.prototype.componentWillRecieveProps,\n
'%s has a method called ' +\n
'componentWillRecieveProps(). Did you mean componentWillReceiveProps()?',\n
spec.displayName || 'A
component'\n
);\n
warning(\n
!Constructor.prototype.UNSAFE_componentWillRecieveProps,\n
'%s
has a method called UNSAFE_componentWillRecieveProps(). ' +\n
'Did you mean
UNSAFE_componentWillReceiveProps()?',\n
spec.displayName || 'A component'\n
);\n }\n\n // Reduce
time spent doing lookups by setting these on the prototype.\n for (var methodName in ReactClassInterface) {\n
if (!Constructor.prototype[methodName]) {\n
Constructor.prototype[methodName] = null;\n
}\n }\n\n
return Constructor;\n }\n\n return createClass;\n}\n\nmodule.exports = factory;\n\n\n\n//////////////////\n// WEBPACK
FOOTER\n// ./node_modules/create-react-class/factory.js\n// module id = 319\n// module chunks = 0","/**\n *
Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n
* LICENSE file in the root directory of this source tree.\n *\n */\n'use strict';\n\nvar _prodInvariant =
require('./reactProdInvariant');\n\nvar ReactElement = require('./ReactElement');\n\nvar invariant =
require('fbjs/lib/invariant');\n\n/**\n * Returns the first child in a collection of children and verifies that there\n * is
only one child in the collection.\n *\n * See https://facebook.github.io/react/docs/top-levelapi.html#react.children.only\n *\n * The current implementation of this function assumes that a single child gets\n *

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passed without a wrapper, but the purpose of this helper function is to abstract away the particular structure of children.

```
* @param {Object} children Child collection structure.
* @return {ReactElement} The first and only `ReactElement` contained in the
* structure. */
function onlyChild(children) {
  !ReactElement.isValidElement(children) ? process.env.NODE_ENV !== 'production' ? invariant(false,
    'React.Children.only expected to receive a single React element child.') : _prodInvariant('143') : void 0;
  return children;
}
```

```
module.exports = onlyChild;
```

```
// WEBPACK FOOTER
// module id = 320
// module chunks = 0
```

```
var ReactPropTypes = {
  array: shim,
  bool: shim,
  func: shim,
  number: shim,
  object: shim,
  string: shim,
  symbol: shim,
  any: shim,
  arrayOf: getShim,
  element: shim,
  instanceOf: getShim,
  node: shim,
  exact: getShim,
  ReactPropTypes: ReactPropTypes,
  checkPropTypes: emptyFunction,
  PropTypes: ReactPropTypes,
};
```

```
export default function () {
  return {
    components: {
      Topbar
    }
  }
}
```

```
import React, { cloneElement } from "react"
import PropTypes from "prop-types"
//import "./topbar.less"
import Logo from "./logo_small.svg"
import {parseSearch, serializeSearch} from "../../core/utils"

export default class Topbar extends React.Component {
  static propTypes = {
    layoutActions: PropTypes.object.isRequired
  }
  constructor(props, context) {
    super(props, context)
    this.state = { url: props.specSelectors.url(),
      selectedIndex: 0 }
  }
  componentWillReceiveProps(nextProps) {
    this.setState({ url: nextProps.specSelectors.url() })
  }
  onUrlChange =(e)=> {
    let {target: {value}} = e
    this.setState({url: value})
  }
  loadSpec = (url) => {
    this.props.specActions.updateUrl(url)
    this.props.specActions.download(url)
  }
  onUrlSelect =(e)=> {
    let url = e.target.value || e.target.href
    this.loadSpec(url)
    this.setSelectedUrl(url)
    e.preventDefault()
  }
  downloadUrl = (e) => {
    this.loadSpec(this.state.url)
    e.preventDefault()
  }
  setSearch = (spec) => {
    let search = parseSearch()
    search["urls.primaryName"] = spec.name
    const newUrl = `${window.location.protocol}//${window.location.host}${window.location.pathname}
    if(window.history && window.history.pushState) {
      window.history.replaceState(null, "",
      window.location.protocol}//${window.location.host}${window.location.pathname}
    }
    this.setState({
      url: newUrl
    })
  }
  setSelectedUrl = (selectedUrl) => {
    const configs = this.props.getConfigs()
    const urls = configs.urls || []
    if(urls && urls.length) {
      if(selectedUrl)
      {
        urls.forEach((spec, i) => {
          if(spec.url === selectedUrl)
            {
              this.setState({selectedIndex: i})
            }
        })
      }
    }
  }
  componentDidMount() {
    const configs = this.props.getConfigs()
    const urls = configs.urls || []
    if(urls && urls.length) {
      var targetIndex = this.state.selectedIndex
      let primaryName = configs["urls.primaryName"]
      if(primaryName)
      {
        urls.forEach((spec, i) => {
          if(spec.name === primaryName)
          {
            this.setState({selectedIndex: i})
            targetIndex = i
          }
        })
      }
    }
  }
  onFilterChange =(e) => {
    let {target: {value}} = e
    this.props.layoutActions.updateFilter(value)
  }
  render() {
    let { getComponent, specSelectors, getConfigs } = this.props
    const Button = getComponent("Button")
    const Link = getComponent("Link")
```

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isLoading = specSelectors.loadingStatus();
if(isLoading) inputStyle.color = '#aaa';
if(isFailed) inputStyle.color = 'red';

const { urls } = getConfigs();
let control = [];
let formOnSubmit = null;

if(urls) {
  let rows = [];
  urls.forEach((link, i) => {
    rows.push(<option key={i} value={link.url}>{link.name}</option>)
  });

  control.push(
    <label className="select-label htmlFor="select"><span>Select a definition</span>
      <select id="select" disabled={isLoading} onChange={ this.onUrlSelect } value={urls[this.state.selectedIndex].url}>
        {rows}
      </select>
    </label>
  )
}
else {
  formOnSubmit = this.downloadUrl
  control.push(<input className="download-url-input" type="text" onChange={ this.onUrlChange } value={this.state.url} disabled={isLoading} style={inputStyle} />)
  control.push(<Button className="download-url-button" onClick={ this.downloadUrl }>Explore</Button>)
}

return (
  <div className="topbar">
    <div className="wrapper">
      <div className="topbar-wrapper">
        <Link>
          <img height="40" src={ Logo } alt="Swagger UI"/>
        </Link>
        <form className="download-url-wrapper" onSubmit={formOnSubmit}>
          {control.map((el, i) => cloneElement(el, { key: i }))}
        </form>
      </div>
    </div>
  </div>
)
e = (e << mLen) | m
  eLen += mLen
  for (; eLen > 0; buffer[offset + i] = e & 0xff, i += d, e /= 256, eLen -= 8)
  buffer[offset + i - d] = s * 128

  buffer[offset + i - d] |= s * 128
}

//////////////////
// WEBPACK FOOTER
// ./node_modules/ieee754/index.js
// module id = 326
// module chunks = 0

//////////////////
// WEBPACK FOOTER
// ./node_modules/babel-runtime/core-js/json/stringify.js
// module id = 327
// module chunks = 0

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (it) {
  if (Array.isArray(it)) {
    return it;
  } else if ((0, _isIterable3.default)(it)) {
    return sliceIterator(it, i);
  } else {
    throw new TypeError("Invalid attempt to destructure non-iterable instance");
  }
}

function _classCallCheck(instance, Constructor) {
  if (!(instance instanceof Constructor)) {
    throw new TypeError("Cannot call a class as a function");
  }
}

function _possibleConstructorReturn(self, call) {
  if (call && (!call.method || (call.method !== 'constructor' && call.method !== 'then')) && self
}
getKeys(S);
    var length = keys.length;
    var j = 0;
    var key;
    while (length > j) if (isEnum.call(S, key = keys[j++]))
      return T[j] = S[key];
  } return T;
} : $assign;


//////////////////
// WEBPACK FOOTER
// .node_modules/core-js/library/modules/_object-assign.js
// module id = 336
// module chunks = 0","module.exports = { "default": require("core-js/library/fn/object/keys"), __esModule: true }


//////////////////
// WEBPACK FOOTER
// ./node_modules/babel-runtime/core-js/object/keys.js
// module id = 337
// module chunks = 0","require('../../modules/es6.object.keys');
module.exports = require('../../modules/_core').Object.keys;


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/library/fn/object/keys.js
// module id = 338
// module chunks = 0", // 19.1.2.14 Object.keys()
var $keys = require('./_object-keys');

require('./_object-sap')('keys', function () {
  return function keys(it) {
    var $keys = require('./_object-keys');
    var length = keys.length;
    var j = 0;
    var key;
    while (length > j) if (isEnum.call(S, key = keys[j++]))
      T[key] = S[key];
  } return T;
} : $assign;


//////////////////
// WEBPACK FOOTER
// ./node_modules/@braintree/sanitize-url/index.js
// module id = 340
// module chunks = 0","var capitalize = require('./capitalize'),
    createCompounder = require('./_createCompounder');

/**
 * Converts `string` to [camel case](https://en.wikipedia.org/wiki/CamelCase).
 * @static
 * @memberOf _
 * @since 3.0.0
 * @category String
 * @param {string} [string=''] The string to convert.
 * @returns {string} Returns the camel cased string.
 * @example
 *
 * _.camelCase('Foo Bar');
 * // => 'fooBar'
 *
 * _.camelCase('--foo-bar--');
 * // => 'fooBar'
 *
 * _.camelCase('__FOO_BAR__');
 * // => 'fooBar'
 */
var camelCase = createCompounder(function(result, word, index) {
  word = word.toLowerCase();
  return result + (index ? capitalize(word) : word);
});

module.exports = camelCase;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/camelCase.js
// module id = 341
// module chunks = 0", /*


arrayMap(array, iteratee) { var index = -1, length = array == null ? 0 : array.length, result = Array(length); while (++index < length) { result[index] = iteratee(array[index], index, array); } } return result;

// WEBPACK FOOTER
// /node_modules/lodash/_arrayMap.js

var Symbol = require('./_Symbol');

/**
 * Used to check objects for own properties. */

var hasOwnProperty = Object.prototype.hasOwnProperty;

/**
 * Converts `value` to a string using `Object.prototype.toString`.
 */

function objectToString(value) {
  return Object.prototype.toString.call(value);
}

module.exports = objectToString;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_objectToString.js

var baseSlice = require('./_baseSlice');

/**
 * The base implementation of `_.slice` without an iteratee call guard.
 */

function baseSlice(array, start, end) {
  var length = array.length;
  if (start < 0) {
    start = -(start > length ? 0 : start);
  }
  end = end > length ? length : end;
  if (end < 0) {
    end += length;
  }
  length = start > end ? 0 : (end - start) >> 0;
  start >>>= 0;

  var result = Array(length);
  while (++index < length) {
    result[index] = array[index + start];
  }
  return result;
}

module.exports = baseSlice;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseSlice.js

/*
 * Functions used to split strings into words.
 */

function words(string, pattern, guard) {
  string = toString(string);
  pattern = guard ? undefined : pattern;

  if (pattern === undefined) {
    return hasUnicodeWord(string) ? unicodeWords(string) : asciiWords(string);
  }
  return string.match(pattern) || [];
}

module.exports = words;


//////////////////
// WEBPACK FOOTER
// module.id = 358
// module.chunks = 0

/**
 * Checks if `string` contains a word composed of Unicode symbols.
 * @param {string} string The string to inspect.
 * @returns {boolean} Returns `true` if a word is found, else `false`.
 */
function hasUnicodeWord(string) {
  return reHasUnicodeWord.test(string);
}

module.exports = hasUnicodeWord;


//////////////////
// WEBPACK FOOTER
// module.id = 359
// module.chunks = 0

/**
 * Splits a string into an array of its words.
 * @param {string} string The string to inspect.
 * @returns {Array} Returns the words of `string`.
 */
function asciiWords(string) {
  return string.match(reAsciiWord) || [];
}

module.exports = asciiWords;


//////////////////
// WEBPACK FOOTER
// module.id = 360
// module.chunks = 0

var Hash = require('./_Hash'),
    ListCache = require('./_ListCache'),
    Map = require('./_Map');

/**
 * Removes all key-
The value to set.
* @returns {Object} Returns the list cache instance.

function listCacheSet(key, value) {
    var data = this.__data__,
    index = assocIndexOf(data, key);

    if (index < 0) {
        ++this.size;
        data.push([key, value]);
    } else {
        data[index][1] = value;
    }
    return this;
}

module.exports = listCacheSet;

function listCacheGet(key) {
    return getMapData(this, key).get(key);
}

module.exports = listCacheGet;

function listCacheHas(key) {
    return getMapData(this, key).has(key);
}

module.exports = listCacheHas;

function listCacheDelete(key) {
    var result = getMapData(this, key)['delete'](key);
    this.size -= result ? 1 : 0;
    return result;
}

module.exports = listCacheDelete;

function listCacheKeyable(value) {
    var type = typeof value;
    return (type == 'string' || type == 'number' || type == 'symbol' || type == 'boolean')
        ? (value !== '__proto__')
        : (value === null);
}

module.exports = listCacheKeyable;

function listCacheValue(value) {
    var data = getMapData(this, key).has(key);
    return data.size == data.size ? 0 : 1;
    return this;
}

module.exports = listCacheValue;

function listCacheIteratee(index) {
    return function(collection, predicate, fromIndex) {
        var iterable = Object(collection);
        if (!isArrayLike(collection)) {
            var iteratee = baseIteratee(predicate, 3);
            collection = mapCacheGet
        }
    }

module.exports = listCacheIteratee;

function listCacheUnfunction() {
    var findIndex = require('./findIndex');
    return function(collection, predicate, fromIndex) {
        var iterable = Object(collection);
        if (!isArrayLike(collection)) {
            var iteratee = baseIteratee(predicate, 3);
            collection = mapCacheGet
        }
    }

module.exports = listCacheUnfunction;

function listCacheFindIndex() {
    var findIndex = require('./findIndex');
    return function(collection, predicate, fromIndex) {
        var iterable = Object(collection);
        if (!isArrayLike(collection)) {
            var iteratee = baseIteratee(predicate, 3);
            collection = mapCacheGet
        }
    }

module.exports = listCacheFindIndex;

function listCacheOver() {
    var findIndex = require('./findIndex');
    return function(collection, predicate, fromIndex) {
        var iterable = Object(collection);
        if (!isArrayLike(collection)) {
            var iteratee = baseIteratee(predicate, 3);
            collection = mapCacheGet
        }
    }

module.exports = listCacheOver;

function listCacheUnfunction() {
    var findIndex = require('./findIndex');
    return function(collection, predicate, fromIndex) {
        var iterable = Object(collection);
        if (!isArrayLike(collection)) {
            var iteratee = baseIteratee(predicate, 3);
            collection = mapCacheGet
        }
    }

module.exports = listCacheUnfunction;

function listCacheOver() {
    var findIndex = require('./findIndex');
    return function(collection, predicate, fromIndex) {
        var iterable = Object(collection);
        if (!isArrayLike(collection)) {
            var iteratee = baseIteratee(predicate, 3);
            collection = mapCacheGet
        }
    }

module.exports = listCacheOver;
Used as the size to enable large array optimizations. */

```javascript
var LARGE_ARRAY_SIZE = 200;
```

```
/**
 * Sets the stack `key` to `value`.
 *
 * @private
 * @name set
 * @memberOf Stack
 * @param {string} key The key of
 * @param {*} value The value to set.
 * @returns {Object} Returns the stack cache instance.
 */
function stackSet(key, value) {
  var data = this.__data__;
  if (data instanceof ListCache) {
    var pairs = data._data__
    if (!Map || (pairs.length < LARGE_ARRAY_SIZE - 1)) {
      pairs.push([key, value]);
      this.size = ++data.size;
      return this;
    }
    data = this.__data__ = new MapCache(pairs);
  }
  data.set(key, value);
  this.size = data.size;
  return this;
}

module.exports = stackSet;
```

```javascript
var Stack = require('./_Stack'),
    equalArrays = require('./_equalArrays'),
    equalByTag = require('./_equalByTag'),
    equalObjects = require('./_equalObjects'),
    getTag = require('./_getTag'),
    isArray = require('./isArray'),
    isBuffer = require('./isBuffer'),
    isTypedArray = require('./isTypedArray');

/** Used to compose bitmasks for
 * value comparisons. */
var COMPARE_PARTIAL_FLAG = 1;

/** `Object#toString` result references. */
var argsTag = '[object Arguments]',
    arrayTag = '[object Array]',
    objectTag = '[object Object]';

/** Used for
 * built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * A specialized version of `baseIsEqual` for
 * arrays and objects which performs
 * deep comparisons and tracks traversed objects enabling objects with
 * circular
 * references to be compared.
 */
function baseIsEqualDeep(object, other, bitmask, customizer, equalFunc, stack) {
  var objIsArr = isArray(object),
      othIsArr = isArray(other),
      objTag = objIsArr ? arrayTag : getTag(object),
      othTag = othIsArr ? arrayTag : getTag(other);

  objTag = objTag == argsTag ? objectTag : objTag;
  othTag = othTag == argsTag ? objectTag : othTag;

  var objIsObj = objTag == objectTag,
      othIsObj = othTag == objectTag,
      isSameTag = objTag == othTag;

  if (isSameTag && isBuffer(object)) {
    if (!isBuffer(other)) {
      return false;
    }
    objIsArr = true;
  }
  if (!isSameTag) {
    return false;
  }
  stack || (stack = new Stack);
  return equalObjects(object, other, bitmask, customizer, equalFunc, stack);
}
```

```
var MapCache = require('./_MapCache'),
    setCacheAdd = require('./_setCacheAdd'),
    setCacheHas = require('./_setCacheHas');

/**
 * Creates an array cache object to store unique values.
 */
function SetCache(values) {
  var index = -1,
      length = values == null ? 0 : values.length;

  this.__data__ = new MapCache;
  while (++index < length) {
    this.add(values[index]);
  }
}

// Add methods to `SetCache`.
SetCache.prototype.add = SetCache.prototype.push = setCacheAdd;
SetCache.prototype.has = setCacheHas;

module.exports = baseIsEqualDeep;
```

```javascript
/**
 * Adds `value` to the array cache instance.
 */
function setCacheAdd(value) {
  this.__data__.set(value, HASH_UNDEFINED);
```

```javascript
var HASH_UNDEFINED = '__lodash_hash_undefined__';

/** Used to stand-in for `undefined` hash values. */
var nullProto = Object.prototype;

/**
 * A specialized version of `baseIsEqual` for
 * objects which performs
 * deep comparisons and tracks traversed objects enabling objects with
 * circular
 * references to be compared.
 */
function baseIsEqualDeep(object, other, bitmask, customizer, equalFunc, stack) {
  var objIsWrapped = objIsObj && hasOwnProperty.call(object, '_wrapped'),
      othIsWrapped = othIsObj && hasOwnProperty.call(other, '_wrapped');

  if (!objectIsWrapped || othIsWrapped) {
    var objUnwrapped = object, othUnwrapped = other;
    if (stack || (stack = new Stack)) {
      return equalFunc(objUnwrapped, othUnwrapped, bitmask, customizer, stack);
    }
    return !isSameTag && (arrayTag || objectTag) ? equalArrays(object, other, bitmask, customizer, equalFunc, stack) : equalObjects(object, other, bitmask, customizer, stack);
  }
  return false;
}
```

```javascript
var Stack = require('./_Stack'),
    equalArrays = require('./_equalArrays'),
    equalByTag = require('./_equalByTag'),
    equalObjects = require('./_equalObjects'),
    getTag = require('./_getTag'),
    isArray = require('./isArray'),
    isBuffer = require('./isBuffer'),
    isTypedArray = require('./isTypedArray');

/** Used to compose bitmasks for
 * value comparisons. */
var COMPARE_PARTIAL_FLAG = 1;

/** `Object#toString` result references. */
var argsTag = '[object Arguments]',
    arrayTag = '[object Array]',
    objectTag = '[object Object]';

/** Used for
 * built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * A specialized version of `baseIsEqual` for
 * arrays and objects which performs
 * deep comparisons and tracks traversed objects enabling objects with
 * circular
 * references to be compared.
 */
function baseIsEqualDeep(object, other, bitmask, customizer, equalFunc, stack) {
  var objIsArr = isArray(object),
      othIsArr = isArray(other),
      objTag = objIsArr ? arrayTag : getTag(object),
      othTag = othIsArr ? arrayTag : getTag(other);

  objTag = objTag == argsTag ? objectTag : objTag;
  othTag = othTag == argsTag ? objectTag : othTag;

  var objIsObj = objTag == objectTag,
      othIsObj = othTag == objectTag,
      isSameTag = objTag == othTag;

  if (isSameTag && isBuffer(object)) {
    if (!isBuffer(other)) {
      return false;
    }
    objIsArr = true;
  }
  if (!isSameTag) {
    return false;
  }
  stack || (stack = new Stack);
  return equalObjects(object, other, bitmask, customizer, equalFunc, stack);
}
```

```javascript
var MapCache = require('./_MapCache'),
    setCacheAdd = require('./_setCacheAdd'),
    setCacheHas = require('./_setCacheHas');

/**
 * Creates an array cache object to store unique values.
 */
function SetCache(values) {
  var index = -1,
      length = values == null ? 0 : values.length;

  this.__data__ = new MapCache;
  while (++index < length) {
    this.add(values[index]);
  }
}
```

```
// Add methods to `SetCache`.
SetCache.prototype.add = SetCache.prototype.push = setCacheAdd;
SetCache.prototype.has = setCacheHas;
```
function mapToArray(map) {
  var index = -1,
      result = Array(map.size);

  map.forEach(function(value, key) {
    result[++index] = [key, value];
  });
  return result;
}

module.exports = mapToArray;


function setToArray(set) {
  var index = -1,
      result = Array(set.size);

  set.forEach(function(value) {
    result[++index] = value;
  });
  return result;
}

module.exports = setToArray;


function equalObjects(object, other, bitmask, customizer, equalFunc, stack) {
  var isPartial = bitmask
    & COMPARE_PARTIAL_FLAG,
      objProps = getAllKeys(object),
      objLength = objProps.length,
      othProps = getAllKeys(other),
      othLength = othProps.length;

  if (objLength != othLength && !isPartial) {
    return false;
  }
  var index = objLength;
  while (index--) {
    var key = objProps[index];
    if (isPartial
      ? customizer(othValue, objValue, key, other, object, stack)
      : customizer(objValue, othValue, key, object, other, stack)) {
      return false;
    }
  }
  return true;
}

module.exports = equalObjects;


function getAllKeys(object) {
  return baseGetAllKeys(object, keys, getSymbols);
}

module.exports = getAllKeys;


function baseGetAllKeys(object, keys, symbols) {
  var length = symbols.length;
  var result = symbols.length ? Array(result.length) : [];

  for (var index = 0; index < length; index++) {
    var symbol = symbols[index];
    if (hasOwnProperty.call(object, symbol)) {
      result[result.length] = symbol;
    }
  }
  return result;
}

module.exports = baseGetAllKeys;


function baseGetAllKeys(object, keys, symbols) {
  var result = symbols.length
    ? Array(result.length) : [];
  for (var index = 0; index < result.length; index++) {
    var symbol = symbols[index];
    if (hasOwnProperty.call(object, symbol)) {
      result[result.length] = symbol;
    }
  }
  return result;
}

module.exports = baseGetAllKeys;


function findKey(object, path) {
  var length = path.length;
  var results = object
    ? Array(object)
      ? [] : 
    : object;

  for (var index = 0; index < length; index++) {
    var key = path[index];
    if (hasOwnProperty.call(object, key)) {
      object = object[key];
    } else {
      return undefined;
    }
  }
  return object;
}

module.exports = findKey;


function isObjectKey(object, key) {
  var type = typeof key;
  return type == 'number' || type == 'symbol' || key
    ? typeof key
      : 'object';
}

module.exports = isObjectKey;


function isObjectValue(object, value) {
  var type = typeof value;
  return type == 'number' || type == 'symbol' || value
    ? typeof value
      : 'object';
}

module.exports = isObjectValue;


function isEqualToNull(value) {
  return value == null;
}

module.exports = isEqualToNull;


function isAnObject(object) {
  return object
    ? typeof object
      : 'object';
}

module.exports = isAnObject;


function isObject(object) {
  return object
    ? typeof object
      : 'object';
}

module.exports = isObject;


function isArrayLike(object) {
  return object
    ? typeof object
      : 'object';
}

module.exports = isArrayLike;


function isObjectLike(object) {
  return object
    ? typeof object
      : 'object';
}

module.exports = isObjectLike;


function isObjectValue(object, value) {
  var type = typeof value;
  return type == 'number' || type == 'symbol' || value
    ? typeof value
      : 'object';
}

module.exports = isObjectValue;


function isEqualToNull(value) {
  return value == null;
}

module.exports = isEqualToNull;


function isAnObject(object, value) {
  var type = typeof value;
  return type == 'number' || type == 'symbol' || value
    ? typeof value
      : 'object';
}

module.exports = isAnObject;


function isObject(object, value) {
  var type = typeof value;
  return type == 'number' || type == 'symbol' || value
    ? typeof value
      : 'object';
}

module.exports = isObject;


function isObjectLike(object, value) {
  var type = typeof value;
  return type == 'number' || type == 'symbol' || value
    ? typeof value
      : 'object';
}

module.exports = isObjectLike;
@private
* @param {number} n The number of times to invoke `iteratee`. `n` @param {Function} iteratee The function invoked per iteration.
* @returns {Array} Returns the array of results.
* @functtion baseTimes(n, iteratee) Returns the array of results.

```javascript
function baseTimes(n, iteratee) {
  var index = -1,
      result = Array(n);

  while (++index < n) {
    result[index] = iteratee(index);
  }
  return result;
}
```

module.exports = baseTimes;


@private
* @param {number} n * The base implementation of `_.isArguments`.
* @returns {boolean} Returns `true` if `value` is an `arguments` object.
* @functtion baseIsArguments(value) {
  return isObjectLike(value) && baseGetTag(value) == argsTag;
}
```

module.exports = baseIsArguments;


`Object#toString` result references.
* @param {*} value The value to check.
* @returns {boolean} Returns `true` if `value` is an `arguments` object.
* @functtion baseIsTypedArray(value) {
  return isObjectLike(value) &&
    isLength(value.length) &&
    !!typedArrayTags[baseGetTag(value)];
}
```

module.exports = baseIsTypedArray;


The base implementation of `_.unary` without support for storing metadata.
* @param {Function} func The function to cap arguments for.
* @returns {Function} Returns the new capped function.
* ```javascript
function baseUnary(func) {
  return function(value) {
    return func(value);
  };
```

module.exports = baseUnary;


// module id = 427
// module chunks = 0
"var memoize = require('./memoize');

/** Used as the maximum memoize cache size. */
var MAX_MEMOIZE_SIZE = 500;

/** A specialized version of `_.memoize` which clears the memoized function's cache when it exceeds `MAX_MEMOIZE_SIZE`.
 */
var memoizeCapped = function(func) {
  var result = memoize(func, function(key) {
    if (cache.size >= MAX_MEMOIZE_SIZE) {
      cache.clear();
    }
    return key; });
  return result;
}

module.exports = memoizeCapped;


// module id = 428
// module chunks = 0
"var baseHasIn = require('./_baseHasIn'),
    hasPath = require('./_hasPath');

/** Checks if `path` is a direct or inherited property of `object`.
 */
function hasIn(object, path) {
  return object != null && hasPath(object, path, baseHasIn);
}

module.exports = hasIn;


// module id = 430
// module chunks = 0
"var castPath = require('./_castPath'),
    isArguments = require('./isArguments'),
    isArray = require('./isArray'),
    isIndex = require('./_isIndex'),
    isLength = require('./isLength'),
    toKey = require('./_toKey');

/** Returns true if `path` exists on `object`. */
function hasPath(object, path, hasFunc) {
  path = castPath(path, object);
  var index = -1,
      length = path.length,
      result = false;
  while (++index < length) {
    var key = toKey(path[index]);
    if (!(result = object != null && hasFunc(object, key))) {
      break;
    }
    object = object[key];
  }
  if (result || ++index != length) {
    return result;
  }
  length = object == null ? 0 : object.length;
  return !!length && isLength(length) && isIndex(key, length) &&
    (isArray(object) || isArguments(object));
}

module.exports = hasPath;


// module id = 431
// module chunks = 0
"/**
 * This method returns the first argument it receives.
 */
function identity(value) {
  return value;
}

module.exports = identity;


// module id = 432
// module chunks = 0
"var baseProperty = require('./_baseProperty'),
    basePropertyDeep = require('./_basePropertyDeep'),
    isKey = require('./_isKey'),
    toKey = require('./_toKey');

/** Creates a function that returns the value at `path` of a given object. */
function property(path) {
  return isKey(path) ? baseProperty(toKey(path)) : basePropertyDeep(path);
}

module.exports = property;
foo

/*
 * Converts `value` to a number. 
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to process.
 * @returns {number} Returns the number.
 *
 * @example
 * __.toNumber(3.2);
 * // => 3.2
 *
 * __.toNumber(Number.MIN_VALUE);
 * // => 5e-324
 *
 * __.toNumber('3.2');
 * // => 3.2
 */
function toNumber(value) {
  if (typeof value == 'number') {
    return value;
  }
  if (isSymbol(value)) {
    return NaN;
  }
  if (isObject(value)) {
    var other = typeof value.valueOf == 'function' ? value.valueOf() : value;
    value = isObject(other) ? (other + '') : other;
  }
  if (typeof value != 'string') {
    return value === 0 ? value : +value;
  }
  value = value.replace(reTrim, '');
  var isBinary = reIsBinary.test(value);
  return (isBinary || reIsOctal.test(value))
    ? freeParseInt(value.slice(2), isBinary ? 2 : 8)
    : (reIsBadHex.test(value) ? NAN : +value);
}

module.exports = toNumber;


couple of quick sanity tests to ensure the value
  // looks like a $ref that swagger-client generates.
  return typeof val === "string" && val.indexOf("#") > -1
    })
  }

  if(!type) {
    if(properties) {
      type = "object"
    } else if(items) {
      type = "array"
    } else {
      return
    }

  if(type === "object") {
    let props = objectify(properties)
    let obj = {}
    for (var name in props) {
      if (props[name] && typeof props[name] !== "undefined") {
        obj[name] = sampleFromSchema(props[name], config)
      }
    }

    if (additionalProperties === true) {
      obj.additionalProp1 = {};
    } else if (additionalProperties) {
      let additionalProps = objectify(additionalProperties)
      let additionalPropVal = sampleFromSchema(additionalProps, config)
      for (let i = 1; i < 4; i++) {
        obj["additionalProp" + i] = additionalPropVal;
      }
    }

    return obj
  }

  if(type === "array") {
    if(Array.isArray(items.anyOf)) {
      return items.anyOf.map(i =>
        sampleFromSchema(i, config))
    }

    if(Array.isArray(items.oneOf)) {
      return items.oneOf.map(i =>
        sampleFromSchema(i, config))
    }

    return [sampleFromSchema(items, config)]
  }

  if(schema["enum"]) {
    if(schema["default"])
      return schema["default"]
    return normalizeArray(schema["enum"])[0]
  }

  if (type === "file") {
    return
  }

  return primitive(schema)
}

export const inferSchema = (thing) => {
  if(thing.schema)
    thing = thing.schema

  if(thing.properties) {
    thing.type = "object"
  }

  return thing // Hopefully this will have something schema
  like in it... `type` for example
}

export const sampleXmlFromSchema = (schema, config={}) => {
  let objectifySchema = deepAssign({}, objectify(schema))
  let { type, properties, additionalProperties, items, example }
  = objectifySchema
  let { includeReadOnly, includeWriteOnly } = config
  let defaultValue = objectifySchema.default
  let let res = [
  let _attr = {
  let xml = schema
  let name, prefix, namespace =
  let enumValue = objectifySchema.enum
  let displayName, value

  if(!type) {
    if(properties || additionalProperties) {
      type = "object"
    } else if(items) {
      type = "array"
    } else {
      return
    }

    name = name || "notagname"
    // add prefix to name if exists
    let namespacePrefix = prefix ? ("xmlns:" + prefix) : "xmlns"
    _attr[namespacePrefix] = namespace
    // add prefix to namespace if exists
    let namespacePrefix = prefix
    let xmlns = prefix ? ("xmlns:" + prefix) : "xmlns"
    _attr xmlns["_attr"] = xmlns["name"]
    let xmlName = name
    // add prefix to namespace if exists
    let namespacePrefix = prefix
    for (let propName in props) {
      if (!props.hasOwnProperty(propName)) {
        continue
      }
      if (props[propName].readOnly && !includeReadOnly) {
        continue
      }
      if (props[propName].writeOnly && !includeWriteOnly) {
        continue
      }

      props[propName].xml = props[propName].xml || {}
      _attr[propName] = sampleFromSchema(props[propName], config)

      for (let propName in props) {
        if (props.hasOwnProperty(propName)) {
          if (props[ propName].readOnly && !includeReadOnly) {
            continue
          }
          if (props[ propName].writeOnly && !includeWriteOnly) {
            continue
          }
        }
      }

      let attrExample = props[propName].example
      let attrDefault = props[propName].default
      _attr[ propName] = attrDefault
      xmlName = props[propName].xml || attrDefault
      xmlName = enumAttrVal || primitive(props[propName], config)
      let propNames = [propName]
      let examples = sampleFromSchema(props[propName], config)
      let example[propName] = undefined
      let propNames = [propName]
      let examples = sampleFromSchema(props[propName], config)
      let example[propName] = undefined
  ```
```javascript
// WEBPACK FOOTER //
// //

var escapeForXML = require('./escapeForXML');
var Stream = require('stream').Stream;

var DEFAULT_INDENT = '    ';

function xml(input, options) {
  if (typeof options !== 'object') {
    options = {
      indent: options
    };
  }

  var stream = options.stream
    ? new Stream() : null,
  output = "",
  interrupted = false,
  indent = !options.indent ? 0 : 1;

  if (!input) { return output; }

  function format(append, resolve(value, indent, indent ? 1 : 0), last) {
    append(resolve(value, indent, indent ? 1 : 0), last);
  }

  function end() {
    if (stream) {
      stream.emit('data', output);
      stream.emit('end');
    }
  }

  function add (value, last) {
    if (value && value.forEach) {
      value.forEach(function (value, i) {
        if (i + 1 === value.length) {
          last = end;
        }
        add(value, last);
      });
    } else {
      format(append, resolve(value, indent, indent ? 1 : 0), last);
    }
  }

  addXmlDeclaration(options.declaration) {
    if (declaration.standalone) {
      attr.standalone = declaration.standalone
    }
    output = output.replace('/>', '?>');
  }

  return output;
}

function createXMLExample(schema, config) {
  var data = output;
  var stream = stream || new Stream();

  function delay (func) {
    if (!instant) {
      func();
    } else {
      delayed
    }
  }

  function memoizedSampleFromSchema = memoizee(sampleFromSchema)

  function memoizedCreateXMLExample = memoizee(createXMLExample)

  export const sampleFromSchema = schema ? sampleFromSchema(schema) : null;
  export const createXMLExample = memoizedCreateXMLExample;
  export const memoizedSampleFromSchema = memoizedSampleFromSchema;

  var options = {
    indent: options
  };

  var stream      = options.stream
    ? new Stream() : null,
  output      = "",
  interrupted = false,
  indent      = !options.indent ? ''
    : options.indent;

  var data = output;
  var values = data;
  var interrupt = false;
  var content = [];

  if (typeof data === 'object') {
    var keys = Object.keys(data);
    name = keys[0];
    values = data[name];
    interrupt = false;
    content = [];
  }

  format(append, resolve(attr, indent), last);

  if (interrupt && !interrupted) {
    stream = stream || new Stream();
    stream.readable = true;
  }

  return output;
}

function memoizee(func) {
  return function () {
    var that = this;
    var indent = !options.indent ? ''
      : options.indent;

    if (options.declaration) {
      var decl = memoizedSampleFromSchema(schema);
      var output = output.replace('/>', '?>');

      if (declaration.standalone) {
        attr.standalone = declaration.standalone
      }
      output = output.replace('/>', '?>');
    }

    return output;
  };
}
```

```javascript
// WEBPACK FOOTER //
// //
```
values) {
    case 'object':
        if (values === null) break;
        if (values._attr) {
            get_attributes(values._attr);
        }

        if (values._cdata) {
            content.push('<![CDATA[' + values._cdata).replace(/\[\]>/g, ']]]><!['
            )
        }

        if (values.forEach) {
            var _name = Object.keys(value)[0];
            if (_name == '_attr') {
                get_attributes(value._attr);
            } else {
                content.push(resolve(value, indent, indent_count + 1));
            }
        }

        default:
            content.push(resolve(values, indent, indent_count + 1));

    }

    return {
        name: name,
        interrupt: interrupt,
        attributes: attributes,
        content: content,
        icount: indent_count,
        indents: indent_spaces,
        indent: indent;
    };

    function format(append, elem, end) {
        if (typeof elem != 'object') {
            return append(false, elem);
        }

        var len = elem.interrupt ? 1 : elem.content.length;

        function proceed() {
            while (elem.content.length) {
                var value = elem.content.shift();

                if (value === undefined) continue;
                if (interrupt(value)) return;

                format(append, value);
            }

            append(false, (len > 1 ? elem.indents : '') + (elem.name ? '</' + elem.name + '>' : ''));
        }

        function interrupt(value) {
            if (value.interrupt) {
                value.interrupt.append = append;
                value.interrupt.end = proceed;
                value.interrupt = false;
                append(true);
                return true;
            }
            return false;
        }

        append(true, elem.indents
            + (elem.name ? '<' + elem.name : '')
            + (elem.attributes.length ? ' ' + elem.attributes.join(' ') : '')
            + (len ? (elem.name ? '>' : '') : (elem.name ? '/>' : ''))
            + (elem.indent && len > 1 ? '\n' : ''));

        if (!len) {
            return append(false, elem.indent ? '\n' : '');
        }

        if (!interrupt(elem)) {
            proceed();
        }
    }

    function attribute(key, value) {
        return key + '=' + '"' + escapeForXML(value) + '"';
    }

    module.exports = xml;
    module.exports.element = module.exports.Element = element;

    // WEBPACK FOOTER
    // ./node_modules/@kyleshockey/xml/lib/xml.js
    // module id = 450
    // module chunks = 0
    // Copyright Joyent, Inc. and other Node contributors.
    // Permission is hereby granted, free of charge, to any person obtaining a copy
    // of this software and associated documentation files (the "Software"), to deal in
    // the Software without restriction, including without limitation the rights to use,
    // copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software,
    // and to permit persons to whom the Software is furnished to do so, subject to
    // the following conditions:
    //    The above copyright notice and this permission notice shall be included in
    // all copies or substantial portions of the Software.
    // THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
    // INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
    // NONINFRINGEMENT AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
    // HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
    // ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
    // WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

    module.exports = Stream;
    module.exports = events;

    var EE = require('events').EventEmitter;
    var inherits = require('inherits');

    inherits(Stream, EE);
    Stream.Readable = require('readable-stream/readable.js');
    Stream.Writable = require('readable-stream/writable.js');
    Stream.Duplex = require('readable-stream/duplex.js');
    Stream.Transform = require('readable-stream/transform.js');
    Stream.PassThrough = require('readable-stream/passthrough.js');

    // Backwards-compat
task.args;\n    switch (args.length) {\n        case 0:\n            callback();\n        break;\n        case 1:\n            callback(args[0]);\n        break;\n        case 2:\n            callback(args[0], args[1]);\n        break;\n        case 3:\n            callback(args[0], args[1], args[2]);\n        break;\n        default:\n            callback.apply(undefined, args);\n            break;\n        }
    }

    function runIfPresent(handle) {
        // From the spec: \"Wait until any invocations of this algorithm started before this one have completed.\" // So if we're currently running a task, we'll need to delay this invocation.\n        if (currentlyRunningATask) \n            // Delay by doing a setTimeout. setImmediate was tried instead, but in Firefox 7 it generated a \n            // \"too much recursion\" error.\n        setTimeout(runIfPresent, 0, handle);\n    } else {\n        var task = tasksByHandle[handle];\n        if (task) {\n            currentlyRunningATask = true;\n            try {\n                run(task);\n            } finally {\n                clearImmediate(handle);\n                currentlyRunningATask = false;\n            }
        }
    }

    function installNextTickImplementation() {\n        registerImmediate = function(handle) {\n            process.nextTick(function () { runIfPresent(handle); });\n        };
    }

    function canUsePostMessage() {\n        // The test against \"importScripts\" prevents this implementation from being installed inside a web worker,\n        // where \`global.postMessage\` means something completely different and can't be used for this purpose.\n        if (global.postMessage && !global.importScripts) {\n            var postMessageIsAsynchronous = true;\n            var oldOnMessage = global.onmessage;
            global.onmessage = function() {\n                var event = arguments[0];\n                if (event.source == global) {\n                    var eventSourceData = event.data;\n                    if (typeof eventSourceData == \"string\") {\n                        var messagePrefix = \"setImmediate\";\n                        var data = eventSourceData.slice(messagePrefix.length);\n                        if (data.indexOf(messagePrefix) == 0) {\n                            var handle = +data.slice(messagePrefix.length);\n                            runIfPresent(handle);\n                        }\n                    }\n                }\n            };
        }\n    }

    function installPostMessageImplementation() {\n        // Installs an event handler on \`global\` for the \`message\` event: see\n        // * https://developer.mozilla.org/en/DOM/window.postMessage\n        // * http://www.whatwg.org/specs/web-apps/current-work/multipage/comms.html#crossDocumentMessages\n        var messagePrefix = \"setImmediate\" + Math.random() + \"\";\n        var onGlobalMessage = function(event) {\n            if (event.source == global) {\n                var eventSourceData = event.data;\n                if (typeof eventSourceData == \"string\") {\n                    var messagePrefix = event.data.indexOf(messagePrefix) == 0) {\n                        var handle = +event.data.slice(messagePrefix.length);\n                        runIfPresent(handle);\n                    }\n                }\n            }\n        };
        global.addEventListener \"message\", onGlobalMessage, false;\n    }

    function installMessageChannelImplementation() {\n        var channel = new MessageChannel();\n        channel.port1.onmessage = function(event) {\n            var handle = event.data;\n            runIfPresent(handle);\n        };
    }

    function installReadyStateChangeImplementation() {\n        var html = doc.documentElement;\n        registerImmediate = function(handle) {\n            html.removeChild(script);\n            script = null;\n        };
    }

    function installSetTimeoutImplementation() {\n        registerImmediate = function(handle) {\n            setTimeout(runIfPresent, 0, handle);\n        };
    }\n
    // If supported, we should attach to the prototype of global, since that is where setTimeout et al. live.\n    var attachTo = Object.getPrototypeOf(Object.getPrototypeOf(global));\n    attachTo = attachTo & attachTo.setInterval & attachTo.setTimeout & attachTo: global;\n    // Don't get fooled by e.g. browserify environments.\n    if ([].toString.call(global.process) !== \"[object process]\") {\n        // For Node.js before 0.9\n        installNextTickImplementation();\n        } else if (canUsePostMessage()) {\n            // For IE 6–8\n            installMessageChannelImplementation();\n            } else if (global.MessageChannel) {\n                // For web workers, where supported\n                installMessageChannelImplementation();\n                } else if (doc && \"onreadystatechange\") {\n                    // For modern browsers\n                    installSetTimeoutImplementation();\n                    } else {\n                        // For older browsers\n                        attachTo.clearImmediate = setImmediate;\n                        attachTo.clearImmediate = clearImmediate;\n                        (typeof self == \"undefined\") ? typeof global == \"undefined\" ?
open source used in SDWan 20.6.1—2005

```javascript
options.async);\n\n\n\n\n\n
```

```javascript

```javascript
```

```javascript

```

```javascript
```
```javascript
arrayContext = this; if (!isArray(arrayLike)) {
  if ((getIterator = arrayLike[Symbol.iterator]) !==
      undefined) {
    // Source: Iterator
    iterator = callable(getIterator).call(arrayLike);
    if (Context) arr = new Context();
    result = iterator.next();
    i = 0;
    while (!result.done) {
      value = mapFn ? call.call(mapFn, thisArg, result.value, i) : result.value;
      if (Context) {
        desc.value = value;
        defineProperty(arr, i, desc);
      } else {
        arr[i] = value;
      }
      result = iterator.next();
      ++i;
    }
    length = i;
  } else if (isString(arrayLike)) {
    // Source: String
    length = arrayLike.length;
    if (Context) arr = new Context();
    for (i = 0, j = 0; i < length; ++i) {
      value = mapFn ? call.call(mapFn, thisArg, arrayLike[i], i) : arrayLike[i];
      if (Context) {
        desc.value = value;
        defineProperty(arr, j, desc);
      } else {
        arr[j] = value;
      }
      ++j;
    }
    length = j;
  }
}
if (length === undefined) {
  // Source: array or array-like
  length = toPosInt(arrayLike.length);
  if (Context) arr = new Context(length);
  for (i = 0; i < length; ++i) {
    value = mapFn ? call.call(mapFn, thisArg, arrayLike[i], i) : arrayLike[i];
    if (Context) {
      desc.value = value;
      defineProperty(arr, i, desc);
    } else {
      arr[i] = value;
    }
  }
}
if (Context) {
  desc.value = null;
  arr.length = length;
}
return arr;

//////////////////
// WEBPACK FOOTER
// ./node_modules/es5-ext/array/from/shim.js
// module id = 485
// module chunks = 0

module.exports = require('./is-implemented')() ? Symbol :
  require('./polyfill');


//////////////////
// WEBPACK FOOTER
// ./node_modules/es6-symbol/index.js

module.exports = function () {
  var symbol;
  if (typeof Symbol !== 'function') return false;
  symbol = Symbol('test symbol');
  try { String(symbol); } catch (e) { return false; }

  // Return 'true' also for polyfills
  if (!validTypes[typeof Symbol.iterator]) return false;
  if (!validTypes[typeof Symbol.toPrimitive]) return false;
  if (!validTypes[typeof Symbol.toStringTag]) return false;

  return true;
};


//////////////////
// WEBPACK FOOTER
// ./node_modules/es6-symbol/is-implemented.js

var d              = require('d'), validateSymbol = require('./validate-symbol')
  , create = Object.create, defineProperties = Object.defineProperties
  , objPrototype = Object.prototype
  , NativeSymbol, SymbolPolyfill, HiddenSymbol, globalSymbols = create(null)
  , isNativeSafe, SymbolPolyfill, HiddenSymbol, globalSymbols = create(null)
  , isNativeSafe, NativeSymbol = create(null)
  , SymbolPolyfill = function Symbol(description) {
    if (this instanceof SymbolPolyfill) throw new TypeError('Symbol is not a constructor');
    return new NativeSymbol(description);
  },
  defineProperties = Object.defineProperty,
  for (key in symbols) {
    validateSymbol(symbols[key]);
    defineProperties(objPrototype, { key: symbols[key] });
  }
```

globalSymbols) if (globalSymbols[key] === s) return key;
},

	// To ensure proper interoperability with other native functions (e.g. Array.from)
	globalSymbols[Symbol.toStringTag] = function() {
		var symbol = validateSymbol(this);
		return symbol.toString();
	},

	// Proper implementation of methods exposed on Symbol.prototype
	defineProperties(SymbolPolyfill.prototype, {
		toString: d('', function() { return this.__name__; })
	});

	// Proper implementation of toPrimitive and toStringTag for returned symbol
	defineProperty(HiddenSymbol.prototype, SymbolPolyfill.toStringTag, d('', SymbolPolyfill.prototype[SymbolPolyfill.toStringTag]));

	// Note: It's important to define 'toPrimitive' as last one, as some implementations won't implement 'toPrimitive' natively without implementing 'toStringTag' and/or other specified symbols
	defineProperty(HiddenSymbol.prototype, SymbolPolyfill.toPrimitive, d('', SymbolPolyfill.prototype[SymbolPolyfill.toPrimitive]));

WEBPACK FOOTER

// node_modules/es6-symbol/is-symbol.js
"use strict";

var callable = require("es5-ext/object/valid-callable");

module.exports = function (userNormalizer) {
	var normalizer;
(typeof userNormalizer === \"function\") return { set: userNormalizer.set, get: userNormalizer.get };\n\n\nif (callable(userNormalizer.get)) {\n\n  normalizer = \{ get: callable(userNormalizer.get) \};\n\n  \n  if (userNormalizer.set !== undefined) {\n    \n      normalizer.set = callable(userNormalizer.set);\n  }\n\n  return normalizer;\n\n\n\n```

```
```javascript

var timeouts, postfix, preFetchAge, preFetchTimeouts;

maxAge = timeout(maxAge);

if (!maxAge)
    return;

postfix =
    (options.async && extensions.async) || (options.promise && extensions.promise)
    ? "async"
    : "";

conf.on("set" + postfix, function (id) {
    timeouts[id] = setTimeout(function () {
        conf.delete(id);
    }, maxAge);
    if (typeof timeouts[id].unref === "function")
        timeouts[id].unref();
    if (!preFetchTimeouts)
        return;
    if (preFetchTimeouts[id] !== "nextTick")
        clearTimeout(preFetchTimeouts[id]);
    delete preFetchTimeouts[id];
});

conf.on("delete" + postfix, function (id) {
    clearTimeout(timeouts[id]);
    delete timeouts[id];
    if (!preFetchTimeouts)
        return;
    if (preFetchTimeouts[id] !== "nextTick")
        clearTimeout(preFetchTimeouts[id]);
    delete preFetchTimeouts[id];
});

if (options.preFetch) {
    if (options.preFetch === true || isNaN(options.preFetch)) {
        preFetchAge = 0.333;
    } else {
        preFetchAge = max(min(Number(options.preFetch), 1), 0);
    }
    if (preFetchAge) {
        preFetchTimeouts = {};
        preFetchAge = (1 - preFetchAge) * maxAge;
        conf.on("get" + postfix, function (id, args, context) {
            if (!preFetchTimeouts[id]) {
                preFetchTimeouts[id] = "nextTick";
                nextTick(function () {
                    var result;
                    if (preFetchTimeouts[id] !== "nextTick")
                        return;
                    delete preFetchTimeouts[id];
                    if (options.async) {
                        args = aFrom(args);
                        args.push(noop);
                    }
                    result = conf.memoized.apply(context, args);
                    if (options.promise) {
                        // Supress eventual error warnings
                        if (isPromise(result))
                            result.done(noop, noop);
                        result.then.then(noop, noop);
                    }
                    conf.delete(id);
                    if (options.promise) {
                        // Supress eventual error warnings
                        if (isPromise(result))
                            result.done(noop, noop);
                        result.then.then(noop, noop);
                    }
                    conf.delete(id);
                });
            }
        });
    }
}

conf.on("clear" + postfix, function () {
    forEach(timeouts, function (id) {
        clearTimeout(id);
    });
    timeouts = {};
    if (preFetchTimeouts)
        forEach(preFetchTimeouts, function (id) {
            if (id !== "nextTick")
                clearTimeout(id);
        });
    preFetchTimeouts = {};
});
```
function (id) {
    var cache = create(null);
    var postfix = (options.async && & extensions.async) ||
        (options.promise && extensions.promise)||
        (typeof id !== "undefined") ? ":async" : ":";
    cache.on("set") + postfix, function (id, length) {
        var length = length || 1;
    }; cache.on("get") + postfix, function (id) {
        return null;
    }; cache.on("delete") + postfix, function (id) {
        delete cache[id];
    }; cache.on("clear") + postfix, function () {
        cache = create(null);
    };
}

function (id) {
    var cache = create(null);
    var postfix = (options.async && & extensions.async) ||
        (options.promise && extensions.promise)||
        (typeof id !== "undefined") ? ":async" : ":";
    cache.on("set") + postfix, function (id, length) {
        var length = length || 1;
    }; cache.on("get") + postfix, function (id) {
        return null;
    }; cache.on("delete") + postfix, function (id) {
        delete cache[id];
    }; cache.on("clear") + postfix, function () {
        cache = create(null);
    };
}

"use strict";

var d          = require("d")
  , extensions = require("../lib/registered-extensions")

  , create =
    Object.create, defineProperties = Object.defineProperties;

extensions.refCounter = function (ignore, conf,
    options) {
    var cache, postfix;

    cache = create(null);
    postfix = (options.async && extensions.async) ||
        (options.promise && extensions.promise)||
        (typeof id !== "undefined") ? ":async" : ":";

    conf.on("set" + postfix, function (id, length)
        cache[id] = length || 1;
    ); conf.on("get" + postfix, function (id) {
        return null;
    }); conf.on("delete" + postfix, function (id) {
        delete cache[id];
    }); conf.on("clear" + postfix, function () {
        cache = create(null);
    };

    defineProperties(conf.memoized, {
        deleteRef: d(function () {
            var id = conf.get(arguments);
            var cache = create(null);
            cache[id] = null;
            return null;
        })); conf.getRefCount: d(function () {
            return null;
        });

    // Reference counter, useful for garbage collector like functionality
    return null;
    });

    // module id = 515
    // module chunks = 0
    // Reference counter, useful for garbage collector like functionality
    return null;
    });

    // WEBPACK FOOTER
    // ./node_modules/lru-queue/index.js
    // module id = 515
    // module chunks = 0
    // Reference counter, useful for garbage collector like functionality
    return null;
    });

    // WEBPACK FOOTER
    // ./node_modules/lru-queue/index.js
    // module id = 515
    // module chunks = 0
    // Reference counter, useful for garbage collector like functionality
    return null;
    });

    // WEBPACK FOOTER
    // ./node_modules/lru-queue/index.js
    // module id = 515
    // module chunks = 0
    // Reference counter, useful for garbage collector like functionality
    return null;
    });

    // WEBPACK FOOTER
    // ./node_modules/stack-smart-lru/index.js
    // module id = 516
    // module chunks = 0
    // Reference counter, useful for garbage collector like functionality
    return null;
    });

    // WEBPACK FOOTER
    // ./node_modules/stack-smart-lru/index.js
    // module id = 516
    // module chunks = 0
    // Reference counter, useful for garbage collector like functionality
    return null;
    });

    // WEBPACK FOOTER
    // ./node_modules/stack-smart-lru/index.js
    // module id = 516
    // module chunks = 0
    // Reference counter, useful for garbage collector like functionality
    return null;
    });

    // WEBPACK FOOTER
    // ./node_modules/stack-smart-lru/index.js
    // module id = 516
    // module chunks = 0
    // Reference counter, useful for garbage collector like functionality
    return null;
    });
output:

* Merge all the supplied objects into the target object, breaking all references, including those of nested objects, and arrays, and even objects nested inside arrays. The first parameter is not mutated unlike `Object.assign()`.

* Properties in later objects will always overwrite.

```javascript
module.exports = function objectAssignDeep(target) {
  for (var _len = arguments.length, objects = Array(_len > 1 ? _len - 1 : 1), _key = 1; _key < _len; _key++) {
    objects[_key - 1] = arguments[_key];
  }

  return executeDeepMerge(target, objects);
};
```

```javascript
module.exports.noMutate = function objectAssignDeepInto() {
  for (var _len2 = arguments.length, objects = Array(_len2), _key2 = 0; _key2 < _len2; _key2++) {
    objects[_key2] = arguments[_key2];
  }

  return executeDeepMerge({}, objects);
};
```

```javascript
module.exports.withOptions = function objectAssignDeepInto(target, objects, options) {
  return executeDeepMerge(target, objects, options);
};
```

```javascript
// WEBPACK FOOTER
// module id = 517
// module chunks = 0
function getLocalConfig() {
  return parseYamlConfig(yamlConfig)
}

export default function

  return {
    statePlugins: {
      spec: {
        actions: specActions,
        selectors: specSelectors,
      },
      configs: {
        reducers,
        actions,
        selectors,
      }
    }
  }
}

// WEBPACK FOOTER //
// ./src/core/plugins/configs/index.js

const url = 'https://petstore.swagger.io/v2/swagger.json';
const validatorUrl = 'https://online.swagger.io/validator';
const swaggerConfigPath = path.join(__dirname, 'swagger-config.yaml');
const moduleConfig = require(swaggerConfigPath);

// WEBPACK FOOTER //
// ./node_modules/@kyleshockey/js-yaml/index.js

require('fs').existsSync('file', function (err, exists) {
  if (err) {
    throw new Error(err); // Handle the error
  }
  if (!exists) {
    throw new Error('File does not exist');
  }
  fs.readFile('file', 'utf8', function (err, data) {
    if (err) {
      throw new Error(err); // Handle the error
    }
    const config = JSON.parse(data);
    // Use the config data
  });
});
fromDecimalCode(c) { \n  if ((0x30/* 0 */ <= c) & (c <= 0x39/* 9 */)) { \n    return c - 0x30; \n  } \n  return -1; \n} \n
function simpleEscapeSequence(c) { \n  /* eslint-disable indent */ \n  return (c === 0x30/* 0 */) ? '\x00' : \n      (c === 0x61/* a */) ? '\x07' : \n      (c === 0x62/* b */) ? '\x08' : \n      (c === 0x09/* Tab */) ? '\x09' : \n      (c === 0x65/* e */) ? '\x0A' : \n      (c === 0x66/* f */) ? '\x0C' : \n      (c === 0x72/* r */) ? '\x0D' : \n      (c === 0x65/* e */) ? '\x1B' : \n      (c === 0x20/* Space */) ? ' ' : \n      (c === 0x22/* " */) ? '\x22' : \n      (c === 0x2F/* / */) ? '/' : \n      (c === 0x5C/* \ */) ? '\x5C' : \n      (c === 0x09/* Tab */) ? '\x09' : \n      (c === 0x65/* e */) ? '\x0A' : \n      (c === 0x4C/* L */) ? '\u2028' : \n      (c === 0x50/* P */) ? '\u2029' ; \n}

function charFromCodepoint(c) { \n  if (c <= 0xFFFF) { \n    return String.fromCharCode(c); \n  } \n  // Encode UTF-16 surrogate pair \n  // https://en.wikipedia.org/wiki/UTF-16#Code_points_U+10000_to_U+10FFFF \n  return String.fromCharCode((c - 0x010000) >> 10, \n    ((c - 0x010000) & 0x03FF) + 0xD800); \n}

var simpleEscapeCheck = new Array(256); // integer, for fast access
var simpleEscapeMap = new Array(256);
for (var i = 0; i < 256; i++) { \n  simpleEscapeCheck[i] = simpleEscapeSequence(i) ? 1 : 0; \n  simpleEscapeMap[i] = \n    simpleEscapeSequence(i); \n} \n
function State(input, options) { \n  this.input = input; \n  \n  this.filename  = \n    options['filename']  || null; \n  this.schema    = \n    options['schema']    || DEFAULT_FULL_SCHEMA; \n  \n  this.onWarning = \n    options['onWarning'] || null; \n  this.legacy    = \n    options['legacy']    || false; \n  this.json      = \n    options['json']      || false; \n  this.listener  = \n    options['listener']  || null; \n  \n  this.implicitTypes = \n    this.schema.compiledImplicit; \n  this.typeMap = \n    this.schema.compiledTypeMap; \n  \n  this.length     = \n    input.length; \n  this.position   = 0; \n  this.line       = 0; \n  this.lineStart  = 0; \n  this.lineIndent = 0; \n  \n  this.documents = []; \n  \n  this.version; \n  this.checkLineBreaks; \n  this.tagMap; \n  this.anchorMap; \n  this.tag; \n  this.anchor; \n  this.kind; \n  this.result; \n}

function generateError(state, message) { \n  return new YAMLException(message, \n    new Mark(state.filename, state.input, state.position, state.line, (state.position - state.lineStart))); \n}

function throwError(state, message) { \n  throw generateError(state, message); \n}

function throwWarning(state, message) { \n  if (state.onWarning) { \n    state.onWarning.call(null, generateError(state, message)); \n  } \n}

var directiveHandlers = { \n  YAML: function handleYamlDirective(state, name, args) { \n    var match, major, minor; \n    \n    if (state.version !== null) { \n      throwError(state, 'duplication of %YAML directive'); \n    } \n    \n    if (args.length !== 1) { \n      throwError(state, 'YAML directive accepts exactly one argument'); \n    } \n    \n    match = /^\[0-9\]+\.\[0-9\]+$/i.exec(args[0]); \n    \n    if (match === null) { \n      throwError(state, 'ill-formed argument of the YAML directive'); \n    } \n    \n    major = parseInt(match[1], 10); \n    minor = parseInt(match[2], 10); \n    \n    if (major !== 1) { \n      throwError(state, 'unacceptable YAML version of the document'); \n    } \n    \n    state.version = args[0]; \n    state.tagMap = \n      new Map(); \n    state.implicitTagDirectives = \n      new Map(); \n    state.tagMap.set(name, { \n      kind: 'tag', \n      type: 'tag', \n      precedence: 1, \n      value: name, \n      isAnchor: false, \n      isDocumentAnchor: false, \n      isInline: true, \n      anchorMap: new Map()
    }); \n    \n    if (minor !== 1) { \n      throwError(state, 'unacceptable YAML version of the document'); \n    } \n    \n    state.tagMap.set(name, { \n      kind: 'tag', \n      type: 'tag', \n      precedence: 1, \n      value: name, \n      isAnchor: false, \n      isDocumentAnchor: false, \n      isInline: true, \n      anchorMap: new Map()
    }); \n  }, \n  TAG: function handleTagDirective(state, name, args) { \n    var handle, prefix; \n    \n    if (args.length !== 2) { \n      throwError(state, 'TAG directive accepts exactly two arguments'); \n    } \n    \n    handle = args[0]; \n    prefix = args[1]; \n    \n    if (!PATTERN_TAG_HANDLE.test(handle)) { \n      throwError(state, 'ill-formed tag handle (first argument) of the TAG directive'); \n    } \n    \n    if (match == null) { \n      throwError(state, 'there is a previously declared suffix for "' + handle + '" tag handle'); \n    } \n    \n    if (!PATTERN_TAG_HANDLE.test(handle)) { \n      throwError(state, 'ill-formed tag prefix (second argument) of the TAG directive'); \n    } \n    \n    if (minor !== 0) { \n      throwError(state, 'the stream contains non-printable characters'); \n    } \n    \n    state.tagMap.set(name, { \n      kind: 'tag', \n      type: 'tag', \n      precedence: 1, \n      value: name, \n      isAnchor: false, \n      isDocumentAnchor: false, \n      isInline: true, \n      anchorMap: new Map()
    }); \n  }
};
sourceKeys[index];\n\n if (!_hasOwnProperty.call(destination, key)) {\n
destination[key] = source[key];\n
overridableKeys[key] = true;\n }\n }\n}\n\nfunction storeMappingPair(state, _result, overridableKeys, keyTag,
keyNode, valueNode, startLine, startPos) {\n var index, quantity;\n\n keyNode = String(keyNode);\n\n if (_result
=== null) {\n _result = {};\n }\n\n if (keyTag === 'tag:yaml.org,2002:merge') {\n if
(Array.isArray(valueNode)) {\n
for (index = 0, quantity = valueNode.length; index < quantity; index += 1) {\n
mergeMappings(state, _result, valueNode[index], overridableKeys);\n
}\n } else {\n
mergeMappings(state,
_result, valueNode, overridableKeys);\n }\n } else {\n if (!state.json &&\n
!_hasOwnProperty.call(overridableKeys, keyNode) &&\n
_hasOwnProperty.call(_result, keyNode)) {\n
state.line = startLine || state.line;\n
state.position = startPos || state.position;\n
throwError(state, 'duplicated
mapping key');\n }\n _result[keyNode] = valueNode;\n delete overridableKeys[keyNode];\n }\n\n return
_result;\n}\n\nfunction readLineBreak(state) {\n var ch;\n\n ch = state.input.charCodeAt(state.position);\n\n if (ch
=== 0x0A/* LF */) {\n state.position++;\n } else if (ch === 0x0D/* CR */) {\n state.position++;\n if
(state.input.charCodeAt(state.position) === 0x0A/* LF */) {\n
state.position++;\n }\n } else {\n
throwError(state, 'a line break is expected');\n }\n\n state.line += 1;\n state.lineStart =
state.position;\n}\n\nfunction skipSeparationSpace(state, allowComments, checkIndent) {\n var lineBreaks = 0,\n
ch = state.input.charCodeAt(state.position);\n\n while (ch !== 0) {\n while (is_WHITE_SPACE(ch)) {\n
ch =
state.input.charCodeAt(++state.position);\n }\n\n if (allowComments && ch === 0x23/* # */) {\n
do {\n
ch = state.input.charCodeAt(++state.position);\n
} while (ch !== 0x0A/* LF */ && ch !== 0x0D/* CR */ && ch
!== 0);\n }\n\n if (is_EOL(ch)) {\n
readLineBreak(state);\n\n
ch =
state.input.charCodeAt(state.position);\n
lineBreaks++;\n
state.lineIndent = 0;\n\n
while (ch === 0x20/*
Space */) {\n
state.lineIndent++;\n
ch = state.input.charCodeAt(++state.position);\n
}\n } else {\n
break;\n }\n }\n\n if (checkIndent !== -1 && lineBreaks !== 0 && state.lineIndent < checkIndent) {\n
throwWarning(state, 'deficient indentation');\n }\n\n return lineBreaks;\n}\n\nfunction
testDocumentSeparator(state) {\n var _position = state.position,\n
ch;\n\n ch =
state.input.charCodeAt(_position);\n\n // Condition state.position === state.lineStart is tested\n // in parent on each
call, for efficiency. No needs to test here again.\n if ((ch === 0x2D/* - */ || ch === 0x2E/* . */) &&\n
ch ===
state.input.charCodeAt(_position + 1) &&\n
ch === state.input.charCodeAt(_position + 2)) {\n\n _position +=
3;\n\n ch = state.input.charCodeAt(_position);\n\n if (ch === 0 || is_WS_OR_EOL(ch)) {\n
return true;\n
}\n }\n\n return false;\n}\n\nfunction writeFoldedLines(state, count) {\n if (count === 1) {\n state.result += ' ';\n
} else if (count > 1) {\n state.result += common.repeat('\\n', count - 1);\n }\n}\n\n\nfunction readPlainScalar(state,
nodeIndent, withinFlowCollection) {\n var preceding,\n
following,\n
captureStart,\n
captureEnd,\n
hasPendingContent,\n
_line,\n
_lineStart,\n
_lineIndent,\n
_kind = state.kind,\n
_result =
state.result,\n
ch;\n\n ch = state.input.charCodeAt(state.position);\n\n if (is_WS_OR_EOL(ch)
||\n
is_FLOW_INDICATOR(ch) ||\n
ch === 0x23/* # */ ||\n
ch === 0x26/* & */ ||\n
ch === 0x2A/* * */
||\n
ch === 0x21/* ! */ ||\n
ch === 0x7C/* | */ ||\n
ch === 0x3E/* > */ ||\n
ch === 0x27/* ' */ ||\n
ch === 0x22/* \" */ ||\n
ch === 0x25/* % */ ||\n
ch === 0x40/* @ */ ||\n
ch === 0x60/* ` */) {\n
return false;\n }\n\n if (ch === 0x3F/* ? */ || ch === 0x2D/* - */) {\n following =
state.input.charCodeAt(state.position + 1);\n\n if (is_WS_OR_EOL(following) ||\n
withinFlowCollection &&
is_FLOW_INDICATOR(following)) {\n return false;\n }\n }\n\n state.kind = 'scalar';\n state.result = '';\n
captureStart = captureEnd = state.position;\n hasPendingContent = false;\n\n while (ch !== 0) {\n if (ch ===
0x3A/* : */) {\n
following = state.input.charCodeAt(state.position + 1);\n\n
if (is_WS_OR_EOL(following)
||\n
withinFlowCollection && is_FLOW_INDICATOR(following)) {\n
break;\n
}\n\n } else if (ch
=== 0x23/* # */) {\n
preceding = state.input.charCodeAt(state.position - 1);\n\n
if
(is_WS_OR_EOL(preceding)) {\n
break;\n
}\n\n } else if ((state.position === state.lineStart &&
testDocumentSeparator(state)) ||\n
withinFlowCollection && is_FLOW_INDICATOR(ch)) {\n
break;\n\n } else if (is_EOL(ch)) {\n
_line = state.line;\n
_lineStart = state.lineStart;\n
_lineIndent =
state.lineIndent;\n
skipSeparationSpace(state, false, -1);\n\n
if (state.lineIndent >= nodeIndent) {\n
hasPendingContent = true;\n
ch = state.input.charCodeAt(state.position);\n
continue;\n
} else {\n

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isExplicitPair = false;

if (ch === 0x3F/* ? */) {
  following = state.input.charCodeAt(state.position + 1);
  if (is_WS_OR_EOL(following)) {
    isPair = isExplicitPair = true;
    state.position++;
  }
}

skipSeparationSpace(state, true, nodeIndent);

_line = state.line;

composeNode(state, nodeIndent, CONTEXT_FLOW_IN, false, true);

_keyTag = state.tag;

_keyNode = state.result;

skipSeparationSpace(state, true, nodeIndent);

ch = state.input.charCodeAt(state.position);

if ((isExplicitPair || state.line === _line) && ch === 0x3A/* : */) {
  isPair = true;
  ch = state.input.charCodeAt(++state.position);

  do {
    skipSeparationSpace(state, true, nodeIndent);
  }
  while (!(isExplicitPair || state.line === _line) && ch === 0x3A/* : */);

  composeNode(state, nodeIndent, CONTEXT_FLOW_IN, false, true);
}

if (isPair) {
  _result.push(composeNode(state, null, overrideableKeys, keyTag, keyNode, valueNode));
}

else {
  _result.push(keyNode);
}

state.line = _line;

composeNode(state, nodeIndent, CONTEXT_FLOW_IN, false, true);

valueNode = state.result;

if (isMapping) {
  storeMappingPair(state, _result, overrideableKeys, keyTag, keyNode, valueNode);
}

else if (isPair) {
  _result.push(storeMappingPair(null, overrideableKeys, keyTag, keyNode, valueNode));
}

else {
  _result.push(keyNode);
}

while (!(isExplicitPair || state.line === _line) && ch === 0x3A/* : */);

}
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Epilogue

// Epiilogue.

// Special case: last mapping's node contains only the key in explicit notation.

if (atExplicitKey) {
  
  storeMappingPair(state, _result, overrideableKeys, keyTag, keyNode, null);

  // Expose the resulting mapping.
  if (detected) {
    state.tag = _tag;
    state.anchor = _anchor;
    state.kind = 'mapping';
    state.result = _result;
  } return detected;
}

// Expose the resulting mapping.
if (detected) {
  state.tag = _tag;
  state.anchor = _anchor;
  state.kind = 'mapping';
  state.result = _result;
} return detected;

function readTagProperty(state) {
  var

  _position,
  isVerbatim = false,
  isNamed = false,
  tagHandle,
  tagName,
  ch;

  ch = state.input.charCodeAt(state.position);

  if (ch !== 0x21/* ! */) return false;

  if (state.tag !== null) {
    throwError(state, 'duplication of a tag property');
  }

  ch = state.input.charCodeAt(++state.position);

  _position = state.position;

  if (isVerbatim) {
    do { ch = state.input.charCodeAt(++state.position); }
    while (ch !== 0 && ch !== 0x3E/* > */);

    if (state.position < state.length) {
      tagName = state.input.slice(_position, state.position);
      ch = state.input.charCodeAt(++state.position);
    } else {
      throwError(state, 'unexpected end of the stream within a verbatim tag');
    }
  } else {
    while (ch !== 0 && !is_WS_OR_EOL(ch)) {

      if (ch === 0x21/* ! */) {

        if (!isNamed) {
          tagHandle = state.input.slice(_position - 1, state.position + 1);

          if (!PATTERN_TAG_HANDLE.test(tagHandle)) {
            throwError(state, 'named tag handle cannot contain such characters');
          }

          isNamed = true;
          _position = state.position + 1;
        } else {
          throwError(state, 'tag suffix cannot contain exclamation marks');
        }

      }

      ch = state.input.charCodeAt(++state.position);
    }

    tagName = state.input.slice(_position, state.position);

    if (PATTERN_FLOW_INDICATORS.test(tagName)) {
      throwError(state, 'tag suffix cannot contain flow indicator characters');
    } return true;
  }

  function readAnchorProperty(state) {
    var

    _position,
    alias,
    ch;

    ch = state.input.charCodeAt(state.position);

    if (ch !== 0x2A/* * */) return false;

    ch = state.input.charCodeAt(++state.position);
    _position = state.position;

    while (ch !== 0 && !is_WS_OR_EOL(ch) && !is_FLOW_INDICATOR(ch)) {

      ch = state.input.charCodeAt(++state.position);
    }

    if (state.position === _position) {
      throwError(state, 'name of an alias node must contain at least one character');
    }

    alias = state.input.slice(_position, state.position);

    if (!state.anchorMap.hasOwnProperty(alias)) {
      throwError(state, 'unidentified alias "' + alias + '"');
    }

    state.result = state.anchorMap[alias];
    skipSeparationSpace(state, true, -1);
    return true;
  }

  function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {
    var

    allowBlockStyles,
    allowBlockScalars,
    allowBlockCollections,
    indentStatus = 1, // 1: this>parent, 0: this=parent, -1: this<parent
    atNewLine = false,
    hasContent = false,
    typeIndex,

    flowIndent,
    blockIndent;

    if (state.listener !== null) {
      state.listener('open', state);
    }

    state.tag = null;
    state.anchor = null;
    state.kind = null;
    state.result = null;

    function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {
      var

      allowBlockStyles,
      allowBlockCollections,
      indentStatus = 1, // 1: this>parent, 0: this=parent, -1: this<parent
      atNewLine = false,
      hasContent = false,
      typeIndex,

      flowIndent,
      blockIndent;

      if (state.listener !== null) {
        state.listener('open', state);
      }

      state.tag = null;
      state.anchor = null;
      state.kind = null;
      state.result = null;

      function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {
        var

        allowBlockStyles,
        allowBlockCollections,
        indentStatus = 1, // 1: this>parent, 0: this=parent, -1: this<parent
        atNewLine = false,
        hasContent = false,
        typeIndex,
        flowIndent,
        blockIndent;

        if (state.listener !== null) {
          state.listener('open', state);
        }

        state.tag = null;
        state.anchor = null;
        state.kind = null;
        state.result = null;

        function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {
          var

          allowBlockStyles,
          allowBlockCollections,
          indentStatus = 1, // 1: this>parent, 0: this=parent, -1: this<parent
          atNewLine = false,
          hasContent = false,
          typeIndex,
          flowIndent,
          blockIndent;

          if (state.listener !== null) {
            state.listener('open', state);
          }

          state.tag = null;
          state.anchor = null;
          state.kind = null;
          state.result = null;

          function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {
            var

            allowBlockStyles,
            allowBlockCollections,
            indentStatus = 1, // 1: this>parent, 0: this=parent, -1: this<parent
            atNewLine = false,
            hasContent = false,
            typeIndex,
            flowIndent,
            blockIndent;

            if (state.listener !== null) {
              state.listener('open', state);
            }

            state.tag = null;
            state.anchor = null;
            state.kind = null;
            state.result = null;

            function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {
              var

              allowBlockStyles,
              allowBlockCollections,
              indentStatus = 1, // 1: this>parent, 0: this=parent, -1: this<parent
              atNewLine = false,
              hasContent = false,
              typeIndex,
              flowIndent,
              blockIndent;

              if (state.listener !== null) {
                state.listener('open', state);
              }

              state.tag = null;
              state.anchor = null;
              state.kind = null;
              state.result = null;

              function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {
                var

                allowBlockStyles,
                allowBlockCollections,
                indentStatus = 1, // 1: this>parent, 0: this=parent, -1: this<parent
                atNewLine = false,
                hasContent = false,
                typeIndex,
                flowIndent,
                blockIndent;

                if (state.listener !== null) {
                  state.listener('open', state);
                }

                state.tag = null;
                state.anchor = null;
                state.kind = null;
                state.result = null;

                function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {
                  var

                  allowBlockStyles,
                  allowBlockCollections,
                  indentStatus = 1, // 1: this>parent, 0: this=parent, -1: this<parent
                  atNewLine = false,
directiveArgs.push(state.input.slice(_position, state.position));

if (ch !== 0) readLineBreak(state);

if (_hasOwnProperty.call(directiveHandlers, directiveName)) {
  directiveHandlers[directiveName](state, directiveName, directiveArgs);
} else {
  throwWarning(state, 'unknown document directive "' +
  directiveName + '"');
}

skipSeparationSpace(state, true, -1);

if (state.lineIndent === 0 &&
  state.input.charCodeAt(state.position)     === 0x2D/* - */ &&
  state.input.charCodeAt(state.position + 1) === 0x2D/* - */ &&
  state.input.charCodeAt(state.position + 2) === 0x2D/* - */) {
  state.position += 3;
}

skipSeparationSpace(state, true, -1);

if (hasDirectives) {
  throwError(state, 'directives end mark is expected');
}

composeNode(state, state.lineIndent - 1, CONTEXT_BLOCK_OUT, false, true);

skipSeparationSpace(state, true, -1);

if (state.checkLineBreaks &&
  PATTERN_NON_ASCII_LINE_BREAKS.test(state.input.slice(documentStart, state.position))) {
  throwWarning(state, 'non-ASCII line breaks are interpreted as content');
}

state.documents.push(state.result);

if (state.position === state.lineStart && testDocumentSeparator(state)) {
  if (state.input.charCodeAt(state.position) === 0x2E/* . */) {
    state.position += 3;
  }
  return;
}

if (state.position < (state.length - 1)) {
  throwError(state, 'end of the stream or a document separator is expected');
} else {
  return;
}

function loadDocuments(input, options) {
  input = String(input);
  options = options || {};

  if (input.length !== 0) {
    // Add tailing `\n` if not exists
    if (input.charCodeAt(input.length - 1) !== 0x0A/* LF */ &&
        input.charCodeAt(input.length - 1) !== 0x0D/* CR */) {
      input += '\n';
    }

    // Strip BOM
    if (input.charCodeAt(0) === 0xFEFF) {
      input = input.slice(1);
    }
  }

  var state = new State(input, options);

  // Use 0 as string terminator. That significantly simplifies bounds check.
  state.input += '\0';

  while (state.input.charCodeAt(state.position) === 0x20/* Space */) {
    state.lineIndent += 1;
    state.position += 1;
  }

  while (state.position < (state.length - 1)) {
    readDocument(state);
  }

  return state.documents;
}


function loadAll(input, iterator, options) {
  var documents = loadDocuments(input, options), index, length;

  if (typeof iterator !== 'function') {
    return documents;
  }

  for (index = 0, length = documents.length; index < length; index += 1) {
    iterator(documents[index]);
  }
}


function load(input, options) {
  var documents = loadDocuments(input, options);

  if (documents.length === 0) {
    /*eslint-disable no-undefined*/
    return undefined;
  } else if (documents.length === 1) {
    return documents[0];
  }

  throw new YAMLException('expected a single document in the stream, but found more');
}


function safeLoadAll(input, output, options) {
  if (typeof output === 'function') {
    loadAll(input, output, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
  } else {
    return loadAll(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
  }
}


function safeLoad(input, options) {
  return load(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
}

module.exports.loadAll     = loadAll;
module.exports.load        = load;
module.exports.safeLoadAll = safeLoadAll;
module.exports.safeLoad    = safeLoad;


//////////////////
// WEBPACK FOOTER
// module id = 523
// module chunks = 0,""use strict";\n
var common = require('./common');


function Mark(name, buffer, position, line, column) {
  this.name     = name;
  this.buffer   = buffer;
  this.position = position;
  this.line     = line;
  this.column   = column;
}


Mark.prototype.getSnippet = function getSnippet(indent, maxLength) {
  var head, start, tail, end, snippet;

  if (!this.buffer) return null;

  indent = indent || 4;
  maxLength = maxLength || 75;

  head = '';
  start = this.position;

  while (start > 0 &&
  '\x00\r\n\x85\u2028\u2029'.indexOf(this.buffer.charAt(start - 1)) === -1) {
    start -= 1;
    if (this.position - start > (maxLength / 2 - 1)) {
      head = ' ... ';
      start += 5;
    }
  }

  tail = '';
  end = this.position;

  while (end < this.buffer.length &&
  '\x00\n\x85\u2028\u2029'.indexOf(this.buffer.charAt(end - 1)) === -1) {
    end += 1;
  }

  return head + this.buffer.slice(start, end);
}


Mark.prototype.toString = function toString(compact) {
  var snippet, where = '';

  if (this.name) {
    where += 'in "' + this.name + '" ';
  }

  where += 'at line ' + (this.line
strict;

```

// [3] day

YAML_TIMESTAMP_REGEXP = new RegExp('^(\[0-9\]-\[0-9\]-\[0-9\])' + // [1] year

YAML_TIMESTAMP_REGEXP = new RegExp('^(\[0-9\]-\[0-9\]-\[0-9\])' + // [1] year

function resolveYamlTimestamp(data) {
  if (data === null)
    return false;
  if (YAML_DATE_REGEXP.exec(data) !== null)
    return true;
  if (YAML_TIMESTAMP_REGEXP.exec(data) !== null)
    return true;
  return false;
}

function constructYamlTimestamp(data) {
  var match, year, month, day, hour, minute, second, fraction = 0,
      delta = null, tz_hour, tz_minute, date;

  match = YAML_DATE_REGEXP.exec(data);
  if (match === null) match = YAML_TIMESTAMP_REGEXP.exec(data);

  if (match === null) throw new Error(Date resolve error);


  year = +(match[1]);
  month = +(match[2]) - 1; // JS month starts with 0
  day = +(match[3]);

  if (!match[4]) { // no hour
    return new Date(Date.UTC(year, month, day));
  }


  hour = +(match[4]);
  minute = +(match[5]);
  second = +(match[6]);

  if (match[7]) { // fraction
    fraction = match[7].slice(0, 3);
    while (fraction.length < 3) { // milli-
      fraction += '0';
    }
    fraction = +fraction;
  }

  // match: [8] tz

  if (match[9]) {
    tz_hour = +(match[10]);
    tz_minute = +(match[11] || 0);
    delta = (tz_hour * 60 + tz_minute) * 60000; // delta in mili-
    seconds
  }

  date = new Date(Date.UTC(year, month, day, hour, minute, second, fraction));

  if (delta) date.setTime(date.getTime() - delta);

  return date;
}

function representYamlTimestamp(object /*, style*/) {
  return object.toISOString();
}

module.exports = new Type('tag:yaml.org,2002:timestamp', {
  kind: 'scalar',
  resolve: resolveYamlTimestamp,
  construct: constructYamlTimestamp,
  instanceOf: Date,
  represent: representYamlTimestamp
});


```
0", "use strict"; \n var Type = require(’../../../type’); \n
 function resolveJavascriptRegExp(data) { \n   if (data === null) return false; \n   if (data.length === 0) return false; \n   var regexp = data, \n       tail = RegExp(’/(g|im)*$/’).exec(data), \n       modifiers = ’’; // if regexp starts with /’ it can have modifiers and must be properly closed \n       // ’foo/gim’ - modifiers tail can be maximum 3 characters \n       if (regexp[0] === ’/’) { \n         if (tail) modifiers = tail[1]; \n         if (modifiers.length > 3) return false; \n         // if expression starts with /, is should be properly terminated \n       } \n       if (regexp.length - modifiers.length - 1 !== ’/’) return false; \n       \n       return true; \n   } \n
   function constructJavascriptRegExp(data) { \n     var regexp = data, \n         tail = /\/([gim]*)((g|im)*$|/)/.exec(data), \n         modifiers = ”; // /foo/gim’ - tail can be maximum 4 characters \n         if (regexp[0] === ’/’) { \n           if (tail) modifiers = tail[1]; \n           if (modifiers.length > 4) return false; \n           if (regexp[regexp.length - modifiers.length - 1] !== ’/’) return false; \n           \n           return new RegExp(regexp, \n               modifiers); \n         } \n
         return JavascriptRegExp(data, object /*, style*/); \n   } \n
   function representJavascriptRegExp(object /*, style*/) { \n     var result = ’/’ + object.source + ’/’; \n     if (object.global) result += ’g’; \n     if (object.multiline) result += ’m’; \n     if (object.ignoreCase) result += ’i’; \n     return result; \n   } \n
   function isRegExp(object) { \n     return Object.prototype.toString.call(object) === ’[object RegExp]’; \n   } \n
   module.exports = new Type(’tag:yaml.org,2002:js/regexp’, { \n     kind: ’scalar’, \n     resolve: resolveJavascriptRegExp, \n     predicate: isRegExp, \n     represent: representJavascriptRegExp \n   }); \n
   // WEBPACK FOOTER
   // module id = 539
   // module chunks = 0

   /*eslint-disable no-use-before-define*/

   var common = require(’../../../js/yaml/common’); \n   var YAMLException = require(’../../../js/yaml/exception’); \n   var DEFAULT_FULL_SCHEMA = require(’../../../js/yaml/schema/default_full’); \n   var DEFAULT_SAFE_SCHEMA = require(’../../../js/yaml/schema/default_safe’); \n
   var CHAR_TAB = 0x09; // Tab \n   var CHAR_LINE_FEED = 0x0A; // LF \n   var CHAR_SPACE = 0x20; // Space \n   var CHAR_EXCLAMATION = 0x21; // ! \n   var CHAR_DOUBLE_QUOTE = 0x22; // " \n   var CHAR_SHARP = 0x27; // # \n   var CHAR_PERCENT = 0x25; // % \n   var CHAR_AMPERSAND = 0x26; // & \n   var CHAR_SQQUOTE = 0x22; // ” * \n   var CHAR_TAB = 0x09; // Tab * \n   var CHAR_LINE_FEED = 0x0A; // LF * \n   var CHAR_SPACE = 0x20; // Space * \n   var CHAR_EXCLAMATION = 0x21; // ! * \n   var CHAR_DOUBLE_QUOTE = 0x22; // " * \n   var CHAR_SHARP = 0x27; // # * \n   var CHAR_PERCENT = 0x25; // % * \n   var CHAR_AMPERSAND = 0x26; // & * \n
   exports = new Type(’tag:yaml.org,2002:js/function’, { \n     kind: ’scalar’, \n     resolve: resolveJavascriptRegExp, \n     predicate: isFunction, \n     represent: representJavascriptRegExp \n   }); \n
   // WEBPACK FOOTER
   // module id = 540
   // module chunks = 0

   var esprima = undefined; \n
   if (typeof window !== ’undefined’) \n     esprima = window.esprima; \n
   var Type = require(’../../../type’); \n
   function resolveJavascriptFunction(data) { \n     if (data === null) return false; \n
     try { \n       var source = ’’ + data + ’’; \n       var ast = esprima.parse(source, { range: true }); \n
       if (ast.type !== ’Program’ || ast.body.length !== 1 || \n           ast.body[0].type !== ’ExpressionStatement’ || \n           (ast.body[0].expression.type !== ’ArrowFunctionExpression’ && \n               ast.body[0].expression.type !== ’FunctionExpression’)) { \n         return false; \n       } \n
       return true; \n     } catch (err) { \n       return false; \n     } \n
     function JavascriptFunctionFunction(data) { \n       if (data.length !== 1) return false; \n
       var expression = data, \n           modifiers = ’’; \n
       if (expression[0] === ’/’) { \n         if (modifiers.length > 4) return false; \n         if (expression[expression.length - 1] !== ’/’) return false; \n       } \n
       return new JavascriptFunction(data); \n     } \n
     function constructJavascriptFunction(data) { \n       var expression = data, \n           modifiers = ’’; \n
       if (expression[0] === ’/’) { \n         if (modifiers.length > 4) return false; \n         if (expression[expression.length - 1] !== ’/’) return false; \n       } \n
       return new JavascriptFunction(data, object /*, style*/); \n     } \n
     function representJavascriptFunction(object /*, style*/) { \n       return object.toString(); \n     } \n
     function isFunction(object) { \n       return Object.prototype.toString.call(object) === ’[object Function]’; \n     } \n
     module.exports = new Type(’tag:yaml.org,2002:js/function’, { \n       kind: ’scalar’, \n       resolve: resolveJavascriptRegExp, \n       predicate: isFunction, \n       represent: representJavascriptRegExp \n     }); \n
     // WEBPACK FOOTER
     // module id = 540
     // module chunks = 0

   // WEBPACK FOOTER
   // module id = 540
   // module chunks = 0

   // WEBPACK FOOTER
   // module id = 540
   // module chunks = 0
CHAR_ASTERISK = 0x2A; /* * */
var CHAR_COMMA = 0x2C; /* , */
var CHAR_MINUS = 0x2D; /* - */
var CHAR_COLON = 0x3A; /* : */
var CHAR_GREATER_THAN = 0x3E; /* > */
var CHAR_QUESTION = 0x3F; /* ? */
var CHAR_COMMERCIAL_AT = 0x40; /* @ */
var CHAR_LEFT_SQUARE_BRACKET = 0x5B; /* [ */
var CHAR_RIGHT_SQUARE_BRACKET = 0x5D; /* ] */
var CHAR_GRAVE_ACCENT = 0x60; /* ` */
var CHAR_LEFT_CURLY_BRACKET = 0x7B; /* { */
var CHAR_VERTICAL_LINE = 0x7C; /* | */
var CHAR_RIGHT_CURLY_BRACKET = 0x7D; /* } */

var ESCAPE_SEQUENCES = {};

ESCAPE_SEQUENCES[0x00] = '\\0';
ESCAPE_SEQUENCES[0x07] = '\\a';
ESCAPE_SEQUENCES[0x08] = '\\b';
ESCAPE_SEQUENCES[0x09] = '\\t';
ESCAPE_SEQUENCES[0x0A] = '\\n';
ESCAPE_SEQUENCES[0x0B] = '\\v';
ESCAPE_SEQUENCES[0x0C] = '\\f';
ESCAPE_SEQUENCES[0x0D] = '\\r';
ESCAPE_SEQUENCES[0x1B] = '\\e';
ESCAPE_SEQUENCES[0x22] = '\"';
ESCAPE_SEQUENCES[0x5C] = '\\\';
ESCAPE_SEQUENCES[0x85] = '\N';
ESCAPE_SEQUENCES[0xA0] = '\_';
ESCAPE_SEQUENCES[0x2028] = '\L';
ESCAPE_SEQUENCES[0x2029] = '\P';

var DEPRECATED_BOOLEANSYNTAX = [
  'y', 'Y', 'yes', 'Yes', 'YES', 'on', 'On', 'ON',
  'n', 'N', 'no', 'No', 'NO', 'off', 'OFF',
  'true', 'TRUE',
  'false', 'FALSE',
];

function compileStyleMap(schema, map) {
  var result, keys, index, length, tag, style,
  type;

  if (map === null) return {};

  result = {};
  keys = Object.keys(map);

  for (index = 0, length = keys.length; index < length; index += 1) {
    tag = keys[index];
    style = String(map[tag]);

    if (tag.slice(0, 2) === '!!') {
      tag = 'tag:yaml.org,2002:' + tag.slice(2);
    }
    type = schema.compiledTypeMap['fallback'][tag];

    if (type && _hasOwnProperty.call(type.styleAliases, style)) {
      style = type.styleAliases[style];
    }

    result[tag] = style;
  }

  return result;
}

function encodeHex(character) {
  var string, handle, length;

  string = character.toString(16).toUpperCase();

  if (character <= 0xFF) {
    handle = 'x';
    length = 2;
  } else if (character <= 0xFFFF) {
    handle = 'u';
    length = 4;
  } else if (character <= 0xFFFFFFFF) {
    handle = 'U';
    length = 8;
  } else {
    throw new YAMLException('code point within a string may not be greater than 0xFFFFFFFF');
  }

  return '\\' + common.repeat('0', length - string.length) + string;
}

function State(options) {
  this.schema       = options['schema'] || DEFAULT_FULL_SCHEMA;
  this.indent       = Math.max(1, (options['indent'] || 2));
  this.skipInvalid  = options['skipInvalid'] || false;
  this.flowLevel    = (common.isNothing(options['flowLevel']) ? -1 : options['flowLevel']);
  this.styleMap     = compileStyleMap(this.schema, options['styles'] || null);
  this.sortKeys     = options['sortKeys'] || false;
  this.lineWidth    = options['lineWidth'] || 80;
  this.noRefs       = options['noRefs'] || false;
  this.noCompatMode = options['noCompatMode'] || false;
  this.condenseFlow = options['condenseFlow'] || false;

  this.implicitTypes = this.schema.compiledImplicit;
  this.explicitTypes = this.schema.compiledExplicit;

  this.tag = null;
  this.result = '';

  this.duplicates = [];
  this.usedDuplicates = null;
}

function testImplicitResolving(state, str) {
  var index, length, type;

  for (index = 0, length = state.implicitTypes.length; index < length; index += 1) {
    type = state.implicitTypes[index];

    if (type.resolve(str)) {
      return true;
    }
  }

  return false;
}

function isWhitespace(c) {
  return c === CHAR_SPACE || c === CHAR_TAB;
}

function isPrintable(c) {
  return (0x00020 <= c && c <= 0x00007E) ||
    (0x0E000 <= c && c <= 0x0FFFDF) ||
    (c <= 0xFEFF && c !== 0xFEFF && c !== 0xFFFD); /* BOM */
}
character in plain style.

```
function isPlainSafe(c) {
  // Uses a subset of nb-char - c-flow-indicator - "\"" - "\"#\n
  return isPrintable(c) && c !== 0xFEFF
    && c !== CHAR_COMMA
    && c !== CHAR_LEFT_SQUARE_BRACKET
    && c !== CHAR_RIGHT_SQUARE_BRACKET
    && c !== CHAR_LEFT_CURLY_BRACKET
    && c !== CHAR_RIGHT_CURLY_BRACKET
    && c !== CHAR_COLON
    && c !== CHAR_SHARP;
}

// Simplified test for values allowed as the first character in plain style.
function isPlainSafeFirst(c) {
  return isPrintable(c) && c !== 0xFEFF
    && !isWhitespace(c)
    && c !== CHAR_MINUS
    && c !== CHAR_QUESTION
    && c !== CHAR_COLON
    && c !== CHAR_COMMA
    && c !== CHAR_LEFT_SQUARE_BRACKET
    && c !== CHAR_RIGHT_SQUARE_BRACKET
    && c !== CHAR_LEFT_CURLY_BRACKET
    && c !== CHAR_RIGHT_CURLY_BRACKET
    && c !== CHAR_SHARP
    && c !== CHAR_AMPERSAND
    && c !== CHAR_ASTERISK
    && c !== CHAR_EXCLAMATION
    && c !== CHAR_VERTICAL_LINE
    && c !== CHAR_GREATER_THAN
    && c !== CHAR_SINGLE_QUOTE
    && c !== CHAR_DOUBLE_QUOTE
    && c !== CHAR_PERCENT
    && c !== CHAR_COMMERCIAL_AT;
}

// Determines whether block indentation indicator is required.
function needIndentIndicator(string) {
  leadingSpaceRe = /^\n* \n* /;
  return leadingSpaceRe.test(string);
}

// Determines which scalar styles are possible and returns the preferred style.
// Pre-conditions: str.length > 0.
// Post-conditions:
//    STYLE_PLAIN or
//    STYLE_SINGLE => no \n are in the string.
//    STYLE_LITERAL => no lines are suitable for folding (or
//    lineWidth is -1).
//    STYLE_FOLDED => a line > lineWidth and can be folded (and lineWidth != -1).
//    STYLE_DOUBLE => line isལ

  return STYLE_DOUBLE;
}
```

// Note: line breaking/folding is implemented for only the folded
// style. Importantly, this keeps the \"+\" chomp indicator from gaining an
extra line.

```javascript
function writeScalar(state, string, level, iskey) {
    state.dump = (function () {
        if (string.length === 0) {
            return `
        }
    }());

    DEPRECATED_BOOLEAN_SYNTAX.indexOf(string) !== -1) {
        return `\" + string + `\";\n    }
}
```

```javascript
var indent = state.indent * Math.max(1, level); // As indentation gets deeper, let the width
decrease monotonically
// to the lower bound min(state.lineWidth, 40);\n
Note that this implies
// state.lineWidth + 40 + state.indent: width is fixed at the lower bound.\n
This behaves better than a constant minimum width which disallows narrower
options,\n
or an indent threshold which causes the width to suddenly increase.\n
var lineWidth = state.lineWidth == -1 ? -1 : Math.max(Math.min(state.lineWidth, 40), 0);\n
Without knowing if keys are implicit/explicit, assume implicit for safety.\n
var singleLineOnly = iskey \n
No block styles in flow mode.\n
((state.flowLevel > -1 && level >= state.flowLevel)):
```

```javascript
function testAmbiguity(string) {
    return testImplicitResolving(state, string);\n
    case STYLE_PLAIN:
        return string;\n
    case STYLE_SINGLE:
        return `\" + string.replace(/\n+/g, `\n") + `\";\n
    case STYLE_LITERAL:
        return `' + blockHeader(string, state.indent) + `\n` + dropEndingNewline(indentString(string, indent));\n
    case STYLE_FOLDED:
        return `>` + blockHeader(string, state.indent) + `\n` + dropEndingNewline(indentString(foldString(string, lineWidth), indent));\n
    case STYLE_DOUBLE:
        return `' + blockHeader(string, state.indent) + `\n` + dropEndingNewline(indentString(foldString(string, lineWidth), indent));\n
    case STYLE_SINGLE:
        return `|` + blockHeader(string, state.indent) + `\n` + dropEndingNewline(indentString(foldString(string, lineWidth), indent));\n
    case STYLE_LITERAL:
        return `' + blockHeader(string, state.indent) + `\n` + dropEndingNewline(indentString(foldString(string, lineWidth), indent));\n
    case STYLE_DOUBLE:
        return `' + blockHeader(string, state.indent) + `\n` + dropEndingNewline(indentString(foldString(string, lineWidth), indent));\n
    case STYLE_FOLDED:
        return `>` + blockHeader(string, state.indent) + `\n` + dropEndingNewline(indentString(foldString(string, lineWidth), indent));\n
    case STYLE_SINGLE:
        return `|` + blockHeader(string, state.indent) + `\n` + dropEndingNewline(indentString(foldString(string, lineWidth), indent));\n
    case STYLE_PLAIN:
        return string;\n
    case DEPRECATED_BOOLEAN_SYNTAX.indexOf(string) !== -1) {
        return `\" + string + `\";\n    }
}
```
{"type.instanceOf || ((typeof object === 'object') && (object.instanceof.type.instanceOf))} &\n{!type.predicate || type.predicate(object))} \n{\n  state.tag = explicit ? type.tag : '?' \n  if (type.predicate) \n  {\n    state.styleMap[type.tag] || type.defaultStyle \n    if (_toString.call(type.represent) === '[object Function]) {\n      \n      _result = type.represent(object, style) \n      else if (_hasOwnProperty.call(type.represent, style)) {\n        \n      \n      if (state.tag !== null && &state.tag !== '?) || duplicate (state.indent !== 2 && &level > 0)) \n        \n      if (state.dump.length !== 0) \n        \n      state.dump = '&ref_' + duplicateIndex,\n      \n      if (state.dump.length !== 0) \n        \n      writeBlockMapping(state, level, state.dump, compact);\n      \n      if (duplicate) \n        \n      writeFlowMapping(state, level, state.dump);\n    }\n    \n    if (state.dump.length !== 0) \n      \n    writeBlockSequence(state, level, state.dump, compact);\n    \n    if (duplicate) \n      \n    writeFlowSequence(state, level, state.dump);\n  }\n} \n
function getDuplicateReferences(object, state) \n{\n  var objects = [],\n  duplicatesIndexes = [],\n  index,\n  length;\n
  inspectNode(object, objects, duplicatesIndexes);\n
  for (index = 0, length = duplicatesIndexes.length; index < length; index += 1) \n  \n  state.duplicates.push(objects[duplicatesIndexes[index]]);\n  \n  state.usedDuplicates = new Array(length);\n  \n  function inspectNode(object, objects, duplicatesIndexes) \n  {\n    if (objects.length === 0) \n      \n    for (index = 0, length = duplicatesIndexes.length; index < length; index += 1) \n      \n    state.duplicates = new Array(length);\n    \n    if (object !== null && typeof object === 'object') \n      \n    if (index !== -1) \n      \n    for (index = 0, length = objects.length; index < length; index += 1) \n      \n    if (Array.isArray(object)) \n      \n    for (index = 0, length = objectKeyList.length; index < length; index += 1) \n      \n    if (object !== null && typeof object === 'object') \n      \n    if (index !== -1) \n      \n    for (index = 0, length = objects.length; index < length; index += 1) \n      \n    state.objects.push(object);\n  }\n} \n
function dump(input, options) \n{\n  options = options || {};\n
  var state = new State(options);\n
  if (!state.noRefs) getDuplicateReferences(input, state);\n
  if (writeNode(state, 0, input, true, true)) return state.dump + '\n';\n
  return '';\n} \n
function safeDump(input, options) \n{\n  return dump(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));\n} \n
module.exports.dump = dump;\nmodule.exports.safeDump = safeDump;
1 }} else {if (byteOffset+valLength>arrLength)byteOffset=arrLength-valLength;for (i=byteOffset;i>=0;i--) { var
found=true;for (var i=0;i<valLength;i++) {if (read(arr,i)==read(val,i)) {found=false; break} } if (found) return
i } } return -1 } Buffer.prototype.includes=function includes(val,byteOffset,encoding){return
this.indexOf(val,byteOffset,encoding)===-1 } Buffer.prototype.indexOf=function
indexOf(val,byteOffset,encoding){return
bidirectionalIndexOf(this,val,byteOffset,encoding,true)} Buffer.prototype.lastIndexOf=function
lastIndexOf(val,byteOffset,encoding){return bidirectionalIndexOf(this,val,byteOffset,encoding,false)};function
hexWrite(buf,string,offset,length){offset=Number(offset)||0;var remaining=buf.length-
length;length=length||remaining else {length=Number(length);if (length>remaining) length=remaining} var
strLen=string.length;if (strLen%2===0) throw new TypeError("Invalid hex
string");if (length*strLen/2!==length) for (var i=0;i<length;++i) { var
parsed=parseInt(string.substr(i*2,2),16);if (isNaN(parsed)) return i; buf[byteOffset+i]=parsed
} return i } function
utf8Write(buf,string,offset,length){return blitBuffer(utf8ToBytes(string,buf.length-
offset),buf,offset,length)} function asciiWrite(buf,string,offset,length){return
blitBuffer(asciiToBytes(string),buf,offset,length)} function latin1Write(buf,string,offset,length){return
bidirectionalIndexOf(buf,string,offset,length);if (isFinite(offset)) {offset=offset|0; if (isFinite(length)) {
length=length|0; if (encoding===undefined) encoding="utf8"; else if (isFinite(offset)) {offset=offset|0; if (isFinite(length))
{length=length; if (encoding==="utf8") encoding="utf8"; else if (encoding==="utf16le") encoding="utf16le"; else throw new
Error("Buffer.write(string, encoding, offset[, length]) is no
longer supported") } else remaining=this.length-
byteOffset;length=length||remaining;remaining=remaining;if (string.length<0&&length<0||offset<0||
offset>this.length){throw new RangeError("Attempt to write outside buffer bounds")} if (!encoding)
encoding="utf8"; var
loweredCase=false;for (;;) { switch (encoding) { case "hex": return
hexWrite(this,string,offset,length);case "utf8": return utf8Write(this,string,offset,length);case "utf-8": return
utf8Write(this,string,offset,length);case "utf-16le": case "utf-16be": return ucs2Write(this,string,offset,length);default:
if (loweredCase) throw new TypeError("Unknown encoding:
"+encoding);encoding=""; } } Buffer.prototype.toJSON=function
toJSON(){return {type:"Buffer",data:Array.prototype.slice.call(this._arr||this,0)}} Buffer.prototype.write=function
write(string,offset,length,encoding){if (offset===undefined){encoding="utf8";length=this.length;offset=0}else
if (length===undefined&&typeof offset="string"){encoding=offset;length=this.length;offset=0}else
if (isFinite(offset)){offset=offset|0; if (isFinite(length)){length=length|0; if (encoding===undefined) encoding="utf8";el
se if (length===undefined) {encoding="utf8"; offset=offset|0; if (isFinite(length)) {length=length|0; if (encoding==="utf8") encoding="utf8";
else if (encoding==="utf16le") encoding="utf16le"; else throw new Error("Unknown encoding:
"+encoding);encoding=""; } } Buffer.prototype.toJSON=function
toJSON(){return {type:"Buffer",data:Array.prototype.slice.call(this._arr||this,0)}}]);function
base64Slice(buf,start,end){if (start===0&&end===buf.length){return base64.fromByteArray(buf)}else{return
base64.fromByteArray(buf.slice(start,end))}} function utf8Slice(buf,start,end){end=Math.min(buf.length,end);var
res=[]; var i=start; while (i<end) { var firstByte=buf[i]; var wordCodePoint=null; var
bytesPerSequence=firstByte>239?4:firstByte>223?3:firstByte>191?2:1; if (i+bytesPerSequence<end) { var
secondByte=buf[i+1]; if ((secondByte&192)===128) { wordCodePoint=(firstByte<<6)|secondByte&63; if (temp
CodePoint>127) { codePoint=codePoint+tempCodePoint } } else { wordCodePoint=((secondByte&192)===128&&
(thirdByte&192)===128) { tempCodePoint=(firstByte<<15)|secondByte&63<<6|thirdByte&63; if (tempCodePoint>2047&&
(tempCodePoint<65536) &&(tempCodePoint>55296) &&(tempCodePoint<57343)) { codePoint=codePoint+tempCodePoint } } } else { wordCodePoint=((secondByte&192)===128&&
(thirdByte&192)===128) { tempCodePoint=(firstByte<<15)|secondByte&63<<12|thirdByte&63<<6|fourthByte&63;
if (tempCodePoint>65535) { tempCodePoint=(firstByte<<15)|secondByte&63<<18|thirdByte&63<<12|fourthByte&63<<6
fourthByte&63; if (tempCodePoint>1114112) { codePoint=codePoint+tempCodePoint } } } } if (codeP
 Uint===null){codePoint=65533;bytesPerSequence=1}else if(codePoint>65535){codePoint- 65536;res.push(codePoint)>>10&1023;codePoint&1023;res.push(codePoint);i+=bytesPerSequence}return decodeCodePointsArray(res)}var MAX_ARGUMENTS_LENGTH=4096;function decodeCodePointsArray(codePoints){var len=codePoints.length;if(len<=MAX_ARGUMENTS_LENGTH){return String.fromCharCode.apply(String,codePoints)}var res=``;var i=0;while(i<len){res+=String.fromCharCode.apply(String,codePoints.slice(i++,MAX_ARGUMENTS_LENGTH))}return res}asciiSlice(buf,start,end){var ret=``;end=Math.min(buf.length,end);for(var i=start;i<end;i++)ret+=String.fromCharCode(buf[i])}return ret}function latin1Slice(buf,start,end){var ret=``;end=Math.min(buf.length,end);for(var i=start;i<end;i++)ret+=String.fromCharCode(buf[i])}return ret}function hexSlice(buf,start,end){var bytes=buf.slice(start,end);var res=``;for(var i=0;i<bytes.length;i+=2){res+=String.fromCharCode(bytes[i]+bytes[i+1]*256)}return res}Buffer.prototype.slice=function slice(start,end){var len=this.length;start=~~start;end=end===undefined?len:~~end;if(start<0){start+=len;if(start<0)start=0}else if(start>len){start=len}if(end<0){end+=len;if(end<0)end=0}else if(end>len){end=len}if(end<start)end=start;var newBuf;if(Buffer.TYPED_ARRAY_SUPPORT){newBuf=this.subarray(start,end);newBuf.__proto__=Buffer.prototype}else{var sliceLen=end-start;newBuf=new Buffer(sliceLen,undefined);for(var i=0;i<sliceLen;++i){newBuf[i]=this[i+start]}}return newBuf};function checkOffset(offset,ext,length){if(offset%1!==0||offset<0)throw new RangeError("offset is not uint");if(offset+ext>length)throw new RangeError("Trying to access beyond buffer length")}Buffer.prototype.readUIntLE=function readUIntLE(offset,byteLength,noAssert){offset=offset|0;byteLength=byteLength|0;if(!noAssert)checkOffset(offset,byteLength,this.length);var val=this[offset];var mul=1;var i=0;while(++i<byteLength&&(mul*=256)){val+=this[offset+i]*mul}return val};Buffer.prototype.readUIntBE=function readUIntBE(offset,byteLength,noAssert){offset=offset|0;byteLength=byteLength|0;if(!noAssert)checkOffset(offset,byteLength,this.length);var i=byteLength;var mul=1;while(i>0&&(mul*=256)){val+=this[offset--]*mul}mul*=128;if(val>=mul)val-=Math.pow(2,8*byteLength);return val};Buffer.prototype.readIntLE=function readIntLE(offset,byteLength,noAssert){offset=offset|0;byteLength=byteLength|0;if(!noAssert)checkOffset(offset,byteLength,this.length);var val=0;var mul=1;var i=0;while(i<.byteLength&&((mul*=256))){val+=this[offset+i]*mul}return val};Buffer.prototype.readIntBE=function readIntBE(offset,byteLength,noAssert){offset=offset|0;byteLength=byteLength|0;if(!noAssert)checkOffset(offset,byteLength,this.length);var i=byteLength;var mul=1;while(i>0&&(mul*=256)){val+=this[offset--]*mul}mul*=128;if(val>=mul)val= Math.pow(2,8*byteLength);return val};Buffer.prototype.readInt8=function readInt8(offset,noAssert){if(!noAssert)checkOffset(offset,1,this.length);return this[offset]};Buffer.prototype.readInt16LE=function readInt16LE(offset,noAssert){if(!noAssert)checkOffset(offset,2,this.length);return this[offset]|this[offset+1]<<8};Buffer.prototype.readInt16BE=function readInt16BE(offset,noAssert){if(!noAssert)checkOffset(offset,2,this.length);return this[offset]>>>8|this[offset+1]<<8};Buffer.prototype.readInt32LE=function readInt32LE(offset,noAssert){if(!noAssert)checkOffset(offset,4,this.length);return this[offset]|this[offset+1]<<8|this[offset+2]<<16|this[offset+3]<<16777216};Buffer.prototype.readInt32BE=function readInt32BE(offset,noAssert){if(!noAssert)checkOffset(offset,4,this.length);return this[offset]*16777216+(this[offset+1]<<16)[this[offset+2]<<8][this[offset+3]]}
writeUInt32BE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,4,4294967295,0);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value;offset+=4}this[offset+1]=value>>>16;this[offset+2]=value>>>24;this[offset+3]=value&255}else{objectWriteUInt32(this,value,offset,false)}return offset+4};Buffer.prototype.writeLE=function
writeIntLE(value,offset,byteLength,noAssert){value=+value;offset=offset|0;if(!noAssert){var limit=Math.pow(2,byteLength*8-1);checkInt(this,value,offset,byteLength,limit-1,-limit)}var i=0;var mul=1;var sub=0;this[offset]=value&255;while(++i<byteLength&&((mul*=256))){if(value<0&&sub===0&&this[offset+i-1]!==0){sub=1}this[offset+i]=(value/mul>>0)-sub&255}return offset+byteLength};Buffer.prototype.writeIntBE=function
writeIntBE(value,offset,byteLength,noAssert){value=+value;offset=offset|0;if(!noAssert){var limit=Math.pow(2,byteLength*8-1);checkInt(this,value,offset,byteLength,limit-1,-limit)}var i=byteLength-1;var mul=1;var sub=0;this[offset+i]=value&255;while(--i>=0&&(mul*=256)){if(value<0&&sub===0&&this[offset+i+1]!==0){sub=1}this[offset+i]=(value/mul>>0)-sub&255}return offset+byteLength};Buffer.prototype.writeInt8=function
writeInt8(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,1,127,-128);if(!Buffer.TYPED_ARRAY_SUPPORT)value=Math.floor(value);if(value<0)value=255+value+1;this[offset]=value&255;return offset+1};Buffer.prototype.writeInt16LE=function
writeInt16LE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,2,32767,-32768);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value&255;this[offset+1]=value>>>8}else{objectWriteUInt16(this,value,offset,true)}return offset+2};Buffer.prototype.writeInt16BE=function
writeInt16BE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,2,32767,-32768);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value>>>8;this[offset+1]=value&255}else{objectWriteUInt16(this,value,offset,false)}return offset+2};Buffer.prototype.writeInt32LE=function
writeInt32LE(value,offset,byteLength,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,4,2147483647,-2147483648);if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value;this[offset+1]=value>>>8;this[offset+2]=value>>>16;this[offset+3]=value>>>24}else{objectWriteUInt32(this,value,offset,true)}return offset+4};Buffer.prototype.writeInt32BE=function
writeInt32BE(value,offset,noAssert){value=+value;offset=offset|0;if(!noAssert)checkInt(this,value,offset,4,2147483647,-2147483648);if(value<0)value=4294967295+value+1;if(Buffer.TYPED_ARRAY_SUPPORT){this[offset]=value;this[offset+1]=value>>>16;this[offset+2]=value>>>24;this[offset+3]=value>>>32}else{objectWriteUInt32(this,value,offset,false)}return offset+4];Buffer.prototype.writeFloatLE=function writeFloatLE(buf,value,offset,littleEndian,noAssert){if(!noAssert){checkIEEE754(buf,value,offset,4,3.4028234663852886e38,1.7976931348623157e308)}ieee754.write(buf,value,offset,littleEndian,23,4);return offset+4];Buffer.prototype.writeFloatBE=function writeFloatBE(buf,value,offset,noAssert){return writeFloat(buf,value,offset,true,noAssert)};Buffer.prototype.writeDoubleLE=function writeDoubleLE(buf,value,offset,noAssert){if(!noAssert){checkIEEE754(buf,value,offset,8,1.7976931348623157e308,-1.7976931348623157e308)}ieee754.write(buf,value,offset,52,8);return offset+8];Buffer.prototype.writeDoubleBE=function writeDoubleBE(buf,value,offset,noAssert){return writeDouble(buf,value,offset,true,noAssert)};Buffer.prototype.writeDoubleBE=function writeDoubleBE(value,offset,noAssert){return writeDouble(value,offset,false,noAssert)};Buffer.prototype.copy=function copy(buf,target,targetStart,start,end){if(!start)start=0;if(!end&&end!==0)end=buf.length;if(targetStart>=target.length)targetStart=target.length;if(targetStart+start>target.length)start=target.length-if(targetStart)targetStart=0;if(end>0&&end<start)end=start;if(end===start)return
Open Source Used In SDWan 20.6.1  22048
Object.prototype; var hasOwnProperty = Object.prototype.hasOwnProperty;

baseKeys(object) { if (isPrototype(object)) { return nativeKeys(object) } var result = []; for (var key in Object(object)) { if (hasOwnProperty.call(object, key) && key !== constructor) { result.push(key) } } return result; }

module.exports = baseKeys, function (module.exports, __webpack_require__) {

var overArg = __webpack_require__(206);

nativeKeys = overArg(Object.keys, Object);

module.exports = nativeKeys, function (module.exports, __webpack_require__) {

var getNative = __webpack_require__(47), root = __webpack_require__(27);

DataView = getNative(root, "DataView");

module.exports = DataView, function (module.exports, __webpack_require__) {

var getNative = __webpack_require__(47), root = __webpack_require__(27);

Promise = getNative(root, "Promise");

module.exports = Promise, function (module.exports, __webpack_require__) {

var getNative = __webpack_require__(47), root = __webpack_require__(27);

Set = getNative(root, "Set");

module.exports = Set, function (module.exports, __webpack_require__) {

var getNative = __webpack_require__(47), root = __webpack_require__(27);

WeakMap = getNative(root, "WeakMap");

module.exports = WeakMap, function (module.exports, __webpack_require__) {

var isStrictComparable = __webpack_require__(197), get = __webpack_require__(141), hasIn = __webpack_require__(466), isKey = __webpack_require__(143), isStrictComparable = __webpack_require__(207), matchesStrictComparable = __webpack_require__(208), toKey = __webpack_require__(56);

COMPARE_PARTIAL_FLAG = 1, COMPAR будем UNORDERED_FLAG = 2;

function baseMatchesProperty(path, srcValue) {

if (isKey(path) && isStrictComparable(srcValue)) {

return matchesStrictComparable(toKey(path), srcValue);

} return function (object) {

if (object != null) {

var objValue = getValue(object, path);

return hasIn(object, path, hasFunc) ?

result = equals(object, path, objValue) :

true;

} return !!length && isLength(length) && isIndex(key, length) && (isArray(object) || isArguments(object));

} module.exports = hasPath, function (module.exports, __webpack_require__) {

var baseHasIn = __webpack_require__(467), hasPath = __webpack_require__(468), function (object, path) {

return hasIn(object, path, hasFunc) ?

result = memoizeCapped(function (string) {

var result = [

];

if (string.charCodeAt(0) === 46) {

result.push(""");

string.replace(rePropName, function (match, number, quote, subString) {

result.push(subString.replace(reEscapeChar, \\

"\"\""));

result.push(pathquote + subString.replace(reEscapeChar, \\

"\"\"")));

return result;

});

module.exports = stringToPath, function (module.exports, __webpack_require__) {

var memoize = __webpack_require__(194); var MAX_MEMOIZE_SIZE = 500; function memoizeCapped (func) {

return memoize(func, function (key) {

if (cache.size !== MAX_MEMOIZE_SIZE) {

cache.clear();

return key;

} return cache;

});

result = memoizeCapped, function (module.exports, __webpack_require__) {

var baseHasIn = __webpack_require__(467), hasPath = __webpack_require__(468), function (object, path) {

return hasIn(object, path, hasFunc) ?

result = object !== null &

&& hasPath(object, path, hasIn), function (module.exports, object) {

function hasIn(object, key) {

return object !== null &

&& key in Object(object);

} module.exports = baseHasIn, function (module.exports, __webpack_require__) {

var castPath = __webpack_require__(73), isArray = __webpack_require__(134), isIndex = __webpack_require__(21), isLength = __webpack_require__(101), toKey = __webpack_require__(56), function (path, hasFunc) {

path = castPath(path, object);

var index = -1, length = path.length, result = false;

while (++index < length) {

key = toKey(path[index]);

if (!result || object !== null &

&& hasFunc(object, key)) {

break;

} object = object[key];

if (result || ++index !== length) {

return;

} length = object !== null ?

object.length :

return false;

} length &

isLength(length) &

isIndex(key, length) &

& (isArray(object) || isArray(path)) {

module.exports = hasPath, function (module.exports, __webpack_require__) {

var
then;if (promise._d) return; promise._d = true; promise.promise = promise._w || promise; try {
  if (promise === value) throw TypeError("Promise can't be resolved itself");
} finally {
  promise._d = true;
  promise = promise._w || promise;
}

try {
  if (promise === value) throw TypeError("Promise can't be resolved itself");
  if (then && isThenable(value)) {
    microtask(function() {
      var wrapper = (_w: promise._d ? false : true);
      try {
        then.call(value, ctx($resolve, wrapper, 1), ctx($reject, wrapper, 1))
      } catch (e) {
        $reject.call(wrapper, e)
      }
    })
  } else {
    promise._v = value;
    promise._s = 1;
    notify(promise, false)
  }
} catch (e) {
  $reject.call(_w: promise._d ? false : true);
}

if (!USE_NATIVE) {
  $Promise = function Promise(executor) {
    anInstance(this, $Promise, PROMISE, "_h");
    aFunction(executor);
    Internal.call(this);
    try {
      executor(ctx($resolve, this, 1), ctx($reject, this, 1))
    } catch (err) {
      $reject.call(this, err)
    }
  }

  Internal.prototype = __webpack_require__(149)($Promise.prototype, {then: function then(onFulfilled, onRejected) {
    var reaction = new PromiseCapability(speciesConstructor(this, $Promise));
    reaction.ok = typeof onFulfilled == "function" ? onFulfilled : true;
    reaction.fail = typeof onRejected == "function" ? onRejected : reaction.fail = typeof onRejected;
    reaction.domain = isNode ? process.domain : undefined;
    if (this._a) this._a.push(reaction);
    return reaction.promise
  }, catch: function(onRejected) {
    return this.then(undefined, onRejected)
  }}, return this.then(defined(onRejected))
  }

  OwnPromiseCapability = function() {
    var promise = new Internal;
    promise.promise = promise._w = promise;
  }

  newPromiseCapability = function(C) {
    return C === $Promise || C === Wrapper ? new OwnPromiseCapability(C) : newGenericPromiseCapability(C)
  }

  $export($export.G + $export.W + $export.F * !USE_NATIVE, {Promise: $Promise});
  __webpack_require__(65)($Promise, PROMISE);

  $export($export.S + $export.F * (LIBRARY || !USE_NATIVE), PROMISE, {
    reject: function reject(r) {
      var capability = new PromiseCapability(this);
      capability.reject(r);
      return capability.promise
    },
    resolve: function resolve(x) {
      return promiseResolve(LIBRARY && this === Wrapper ? $Promise : this, x)
    },
    all: function all(iterable) {
      var C = this;
      var capability = new PromiseCapability(C);
      var resolve = capability.resolve;
      var reject = capability.reject;
      var result = perform(function() {
        var values = [];
        var index = 0;
        var remaining = 1;
        forOf(iterable, false, function(promise) {
          var $index = index++;
          var alreadyCalled = false;
          values.push(defined());
          remaining ++;
          C.resolve(promise).then(function(value) {
            if (alreadyCalled || index != $index) return;
            alreadyCalled = true;
            values[$index] = value;
            -- remaining;
            if (remaining === 0) {
              resolve(values);
            }
          }, reject);
        });
        return result.
      }()
      )
      return promiseResolve(LIBRARY && this === Wrapper ? $Promise : this, x)
    },
    race: function race(_iterable) {
      var C = this;
      var capability = new PromiseCapability(C);
      var reject = capability.reject;
      var result = perform(function() {
        forOf(iterable, false, function(promise) {
          C.resolve(promise).then(capability.resolve, reject)
        }()
      }()
      )
      return promiseResolve(LIBRARY && this === Wrapper ? $Promise : this, x)
    }
  });
}

function (module, exports) {
  module.exports = function (fn, args, that) {
    var un = that === undefined;
    switch (args.length) {
      case 0: return un ? fn().call(that) : fn.call(that);
      case 1: return un ? fn(args[0]).call(that) : fn.call(that, args[0]);
      case 2: return un ? fn(args[0], args[1]).call(that) : fn.call(that, args[0], args[1]);
      case 3: return un ? fn(args[0], args[1], args[2]).call(that) : fn.call(that, args[0], args[1], args[2]);
      case 4: return un ? fn(args[0], args[1], args[2], args[3]).call(that) : fn.call(that, args[0], args[1], args[2], args[3]);
      default: return fn.apply(that, arguments);
    }
  }
}

function module.exports = function (fn, args, that) {
  var un = that === undefined;
  switch (args.length) {
    case 0: return un ? fn().call(that) : fn.call(that);
    case 1: return un ? fn(args[0]).call(that) : fn.call(that, args[0]);
    case 2: return un ? fn(args[0], args[1]).call(that) : fn.call(that, args[0], args[1]);
    case 3: return un ? fn(args[0], args[1], args[2]).call(that) : fn.call(that, args[0], args[1], args[2]);
    case 4: return un ? fn(args[0], args[1], args[2], args[3]).call(that) : fn.call(that, args[0], args[1], args[2], args[3]);
    default: return fn.apply(that, arguments);
  }
}

function (module, exports) {
  module.exports = function (fn, args, that) {
    var un = that === undefined;
    switch (args.length) {
      case 0: return un ? fn().call(that) : fn.call(that);
      case 1: return un ? fn(args[0]).call(that) : fn.call(that, args[0]);
      case 2: return un ? fn(args[0], args[1]).call(that) : fn.call(that, args[0], args[1]);
      case 3: return un ? fn(args[0], args[1], args[2]).call(that) : fn.call(that, args[0], args[1], args[2]);
      case 4: return un ? fn(args[0], args[1], args[2], args[3]).call(that) : fn.call(that, args[0], args[1], args[2], args[3]);
      default: return fn.apply(that, arguments);
    }
  }
}

observer = global.MutationObserver || global.WebKitMutationObserver;
var process = global.process;
var Promise = global.Promise;
var isNode = __webpack_require__(61)().process !== "process";
module.exports = function () {
  var head, last, notify, flush = function () {
    var parent, fn;
    if (isNode) {
      parent.exit();
      while (head) {
        fn = head.fn;
        head = head.next;
        try {
          fn();
        } catch (e) {
          if (head) {
            notify();
          } else {
            last = undefined;
            throw e;
          }
        } last = undefined;
      }
    } else {
      notify = function () {
        process.nextTick(flush);
      }
    }
  }
  notify();
  if (isNode) {
    parent.entry();
  }
  if (isNode) {
    process.nextTick(flush);
  }
}

function (module, exports) {
  module.exports = function (fn, args, that) {
    var un = that === undefined;
    switch (args.length) {
      case 0: return un ? fn().call(that) : fn.call(that);
      case 1: return un ? fn(args[0]).call(that) : fn.call(that, args[0]);
      case 2: return un ? fn(args[0], args[1]).call(that) : fn.call(that, args[0], args[1]);
      case 3: return un ? fn(args[0], args[1], args[2]).call(that) : fn.call(that, args[0], args[1], args[2]);
      case 4: return un ? fn(args[0], args[1], args[2], args[3]).call(that) : fn.call(that, args[0], args[1], args[2], args[3]);
      default: return fn.apply(that, arguments);
    }
  }
}

observer = global.MutationObserver || global.WebKitMutationObserver;
var process = global.process;
var Promise = global.Promise;
var isNode = __webpack_require__(61)().process !== "process";
module.exports = function () {
  var head, last, notify, flush = function () {
    var parent, fn;
    if (isNode) {
      parent.exit();
      while (head) {
        fn = head.fn;
        head = head.next;
        try {
          fn();
        } catch (e) {
          if (head) {
            notify();
          } else {
            last = undefined;
            throw e;
          }
        } last = undefined;
      }
    } else {
      notify = function () {
        process.nextTick(flush);
      }
    }
  }
  notify();
  if (isNode) {
    parent.entry();
  }
  if (isNode) {
    process.nextTick(flush);
  }
}
if(Observer&&!(global.navigator&&global.navigator.standalone)){var toggle=true;var
node=document.createTextNode("");new
Observer(flush).observe(node,{characterData:true});notify=function(){node.data=toggle=!toggle}}else
if(Promise&&Promise.resolve){var
promise=Promise.resolve();notify=function(){promise.then(flush)}}else{notify=function(){macrotask.call(global,fl
ush)}}return function(fn){var
task={fn:fn,next:undefined};if(last)last.next=task;if(!head){head=task;notify()}last=task}}},function(module,export
s,__webpack_require__){"use strict";var $export=__webpack_require__(13);var
core=__webpack_require__(10);var global=__webpack_require__(16);var
speciesConstructor=__webpack_require__(227);var
promiseResolve=__webpack_require__(230);$export($export.P+$export.R,"Promise",{finally:function(onFinally){
var C=speciesConstructor(this,core.Promise||global.Promise);var isFunction=typeof onFinally=="function";return
this.then(isFunction?function(x){return promiseResolve(C,onFinally()).then(function(){return
x})}:onFinally,isFunction?function(e){return promiseResolve(C,onFinally()).then(function(){throw
e})}:onFinally)}})},function(module,exports,__webpack_require__){"use strict";var
$export=__webpack_require__(13);var newPromiseCapability=__webpack_require__(148);var
perform=__webpack_require__(229);$export($export.S,"Promise",{try:function(callbackfn){var
promiseCapability=newPromiseCapability.f(this);var
result=perform(callbackfn);(result.e?promiseCapability.reject:promiseCapability.resolve)(result.v);return
promiseCapability.promise}})},function(module,exports,__webpack_require__){module.exports=__webpack_requi
re__(504)},function(module,exports){module.exports=require("regeneratorruntime")},function(module,exports,__webpack_require__){"use strict";exports.__esModule=true;var
_promise=__webpack_require__(226);var _promise2=_interopRequireDefault(_promise);function
_interopRequireDefault(obj){return obj&&obj.__esModule?obj:{default:obj}}exports.default=function(fn){return
function(){var gen=fn.apply(this,arguments);return new _promise2.default(function(resolve,reject){function
step(key,arg){try{var info=gen[key](arg);var
value=info.value}catch(error){reject(error);return}if(info.done){resolve(value)}else{return
_promise2.default.resolve(value).then(function(value){step("next",value)},function(err){step("throw",err)})}}return
step("next")})}}},function(module,exports,__webpack_require__){"use strict";var
loader=__webpack_require__(507);var dumper=__webpack_require__(526);function deprecated(name){return
function(){throw new Error("Function "+name+" is deprecated and cannot be
used.")}}module.exports.Type=__webpack_require__(11);module.exports.Schema=__webpack_require__(59);mod
ule.exports.FAILSAFE_SCHEMA=__webpack_require__(150);module.exports.JSON_SCHEMA=__webpack_requ
ire__(234);module.exports.CORE_SCHEMA=__webpack_require__(233);module.exports.DEFAULT_SAFE_SCH
EMA=__webpack_require__(77);module.exports.DEFAULT_FULL_SCHEMA=__webpack_require__(104);modul
e.exports.load=loader.load;module.exports.loadAll=loader.loadAll;module.exports.safeLoad=loader.safeLoad;modu
le.exports.safeLoadAll=loader.safeLoadAll;module.exports.dump=dumper.dump;module.exports.safeDump=dumpe
r.safeDump;module.exports.YAMLException=__webpack_require__(76);module.exports.MINIMAL_SCHEMA=_
_webpack_require__(150);module.exports.SAFE_SCHEMA=__webpack_require__(77);module.exports.DEFAULT
_SCHEMA=__webpack_require__(104);module.exports.scan=deprecated("scan");module.exports.parse=deprecated
("parse");module.exports.compose=deprecated("compose");module.exports.addConstructor=deprecated("addConstr
uctor")},function(module,exports,__webpack_require__){"use strict";var common=__webpack_require__(58);var
YAMLException=__webpack_require__(76);var Mark=__webpack_require__(508);var
DEFAULT_SAFE_SCHEMA=__webpack_require__(77);var
DEFAULT_FULL_SCHEMA=__webpack_require__(104);var
_hasOwnProperty=Object.prototype.hasOwnProperty;var CONTEXT_FLOW_IN=1;var
CONTEXT_FLOW_OUT=2;var CONTEXT_BLOCK_IN=3;var CONTEXT_BLOCK_OUT=4;var
CHOMPING_CLIP=1;var CHOMPING_STRIP=2;var CHOMPING_KEEP=3;var

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provided source object is
unacceptable")}sourceKeys=Object.keys(source);for(index=0,quantity=sourceKeys.length;index<quantity;index+=1
){key=sourceKeys[index];if(!_hasOwnProperty.call(destination,key)){destination[key]=source[key];overridableKey
s[key]=true}}}function
storeMappingPair(state,_result,overridableKeys,keyTag,keyNode,valueNode,startLine,startPos){var
index,quantity;keyNode=String(keyNode);if(_result===null){_result={}}if(keyTag==="tag:yaml.org,2002:merge")
{if(Array.isArray(valueNode)){for(index=0,quantity=valueNode.length;index<quantity;index+=1){mergeMappings
(state,_result,valueNode[index],overridableKeys)}}else{mergeMappings(state,_result,valueNode,overridableKeys)}
}else{if(!state.json&&!_hasOwnProperty.call(overridableKeys,keyNode)&&_hasOwnProperty.call(_result,keyNod
e)){state.line=startLine||state.line;state.position=startPos||state.position;throwError(state,"duplicated mapping
key")}_result[keyNode]=valueNode;delete overridableKeys[keyNode]}return _result}function
readLineBreak(state){var ch;ch=state.input.charCodeAt(state.position);if(ch===10){state.position++}else
if(ch===13){state.position++;if(state.input.charCodeAt(state.position)===10){state.position++}}else{throwError(st
ate,"a line break is expected")}state.line+=1;state.lineStart=state.position}function
skipSeparationSpace(state,allowComments,checkIndent){var
lineBreaks=0,ch=state.input.charCodeAt(state.position);while(ch!==0){while(is_WHITE_SPACE(ch)){ch=state.inp
ut.charCodeAt(++state.position)}if(allowComments&&ch===35){do{ch=state.input.charCodeAt(++state.position)}
while(ch!==10&&ch!==13&&ch!==0)}if(is_EOL(ch)){readLineBreak(state);ch=state.input.charCodeAt(state.positi
on);lineBreaks++;state.lineIndent=0;while(ch===32){state.lineIndent++;ch=state.input.charCodeAt(++state.positio
n)}}else{break}}if(checkIndent!==1&&lineBreaks!==0&&state.lineIndent<checkIndent){throwWarning(state,"deficient indentation")}return
lineBreaks}function testDocumentSeparator(state){var
_position=state.position,ch;ch=state.input.charCodeAt(_position);if((ch===45||ch===46)&&ch===state.input.charC
odeAt(_position+1)&&ch===state.input.charCodeAt(_position+2)){_position+=3;ch=state.input.charCodeAt(_posit
ion);if(ch===0||is_WS_OR_EOL(ch)){return true}}return false}function
writeFoldedLines(state,count){if(count===1){state.result+=" "}else
if(count>1){state.result+=common.repeat("\n",count-1)}}function
readPlainScalar(state,nodeIndent,withinFlowCollection){var
preceding,following,captureStart,captureEnd,hasPendingContent,_line,_lineStart,_lineIndent,_kind=state.kind,_resu
lt=state.result,ch;ch=state.input.charCodeAt(state.position);if(is_WS_OR_EOL(ch)||is_FLOW_INDICATOR(ch)||ch
===35||ch===38||ch===42||ch===33||ch===124||ch===62||ch===39||ch===34||ch===37||ch===64||ch===96){return
false}if(ch===63||ch===45){following=state.input.charCodeAt(state.position+1);if(is_WS_OR_EOL(following)||wi
thinFlowCollection&&is_FLOW_INDICATOR(following)){return
false}}state.kind="scalar";state.result="";captureStart=captureEnd=state.position;hasPendingContent=false;while(ch
!==0){if(ch===58){following=state.input.charCodeAt(state.position+1);if(is_WS_OR_EOL(following)||withinFlow
Collection&&is_FLOW_INDICATOR(following)){break}}else
if(ch===35){preceding=state.input.charCodeAt(state.position-1);if(is_WS_OR_EOL(preceding)){break}}else
if(state.position===state.lineStart&&testDocumentSeparator(state)||withinFlowCollection&&is_FLOW_INDICAT
OR(ch)){break}else
if(is_EOL(ch)){_line=state.line;_lineStart=state.lineStart;_lineIndent=state.lineIndent;skipSeparationSpace(state,fal
se,1);if(state.lineIndent>=nodeIndent){hasPendingContent=true;ch=state.input.charCodeAt(state.position);continue}el
se{state.position=captureEnd;state.line=_line;state.lineStart=_lineStart;state.lineIndent=_lineIndent;break}}if(hasPe
ndingContent){captureSegment(state,captureStart,captureEnd,false);writeFoldedLines(state,state.line_line);captureStart=captureEnd=state.position;hasPendingContent=false}if(!is_WHITE_SPACE(ch)){captureEnd=s
tate.position+1}ch=state.input.charCodeAt(++state.position)}captureSegment(state,captureStart,captureEnd,false);if
(state.result){return true}state.kind=_kind;state.result=_result;return false}function
readSingleQuotedScalar(state,nodeIndent){var

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ch, captureStart, captureEnd; ch = state.input.charCodeAt(state.position); if (ch !== 39) { return false } state.kind = "scalar"; state.result = ";"; state.position++; captureStart = captureEnd = state.position; while ((ch = state.input.charCodeAt(state.position)) !== 0) {
if (ch !== 39) { captureSegment(state, captureStart, state.position, true); ch = state.input.charCodeAt(+state.position); if (ch !== 39) { captureStart = state.position; state.position++; captureEnd = state.position; }
} else { return true } }

if (is_EOL(ch)) {
    captureSegment(state, captureStart, captureEnd, true); writeFoldedLines(state, skipSeparationSpace(state, false, nodeIndent)); captureStart = captureEnd = state.position;
} else if (state.position === state.lineStart & & testDocumentSeparator(state)) {
    throwError(state, "unexpected end of the document within a single quoted scalar")
}

function readDoubleQuotedScalar(state, nodeIndent) {
    var
    captureStart, captureEnd, hexLength, hexResult, tmp, ch;
    ch = state.input.charCodeAt(state.position); if (ch !== 34) { return false } state.kind = "scalar"; state.result = ""; state.position++; captureStart = captureEnd = state.position;
    while ((ch = state.input.charCodeAt(state.position)) !== 0) {
        if (ch === 34) { captureSegment(state, captureStart, state.position, true); state.position++; return true } else if (ch === 92) { captureSegment(state, captureStart, state.position, true); ch = state.input.charCodeAt(++state.position); if (is_EOL(ch)) { skipSeparationSpace(state, false, nodeIndent) } else if (ch < 256 && simpleEscapeCheck[ch]) { state.result += simpleEscapeMap[ch]; state.position++ } else if ((tmp = escapedHexLen(ch)) > 0) {
            hexLength = tmp; hexResult = 0; for (; hexLength > 0; hexLength--) {
                ch = state.input.charCodeAt(++state.position);
                if ((tmp = fromHexCode(ch)) >= 0) {
                    hexResult = (hexResult << 4) + tmp
                } else {
                    throwError(state, "unknown escape sequence")
                }
            }
            state.result += charFromCodepoint(hexResult); state.position++
        } else if (is_EOL(ch)) { captureSegment(state, captureStart, state.position, true); writeFoldedLines(state, skipSeparationSpace(state, false, nodeIndent)); captureStart = captureEnd = state.position;
    } else if (state.position === state.lineStart & & testDocumentSeparator(state)) {
        throwError(state, "unexpected end of the document within a double quoted scalar")
    }
}

function readBlockScalar(state, nodeIndent) {
    var
    readNext = true, _line, _tag = state.tag, _result, _anchor = state.anchor, following, terminator, isPair, isExplicitPair, isMapping, overridableKeys = {}, keyNode, keyTag, valueNode, ch;
    ch = state.input.charCodeAt(state.position); if (ch === 91) { terminator = 93; isMapping = false; _result = [] } else if (ch === 123) { terminator = 125; isMapping = true; _result = {} } else {
            throwError(state, "invalid character")
        }
        state.result += charFromCodepoint(hexResult); state.position++
    } else if (is_EOL(ch)) {
        captureSegment(state, captureStart, captureEnd, true); writeFoldedLines(state, skipSeparationSpace(state, false, nodeIndent)); captureStart = captureEnd = state.position;
    } else if (state.position === state.lineStart & & testDocumentSeparator(state)) {
        throwError(state, "unexpected end of the document within a flow collection")
    }
}

function readFlowCollection(state, nodeIndent) {
    var
    readNext = true, _line, _tag = state.tag, _result, _anchor = state.anchor, following, terminator, isPair, isExplicitPair, isMapping, overridableKeys = {}, keyNode, keyTag, valueNode, ch;
    ch = state.input.charCodeAt(state.position); if (ch === 91) { terminator = 93; isMapping = false; _result = [] } else if (ch === 123) { terminator = 125; isMapping = true; _result = {} } else {
            throwError(state, "invalid character")
        }
        state.result += charFromCodepoint(hexResult); state.position++
    } else if (is_EOL(ch)) {
        captureSegment(state, captureStart, captureEnd, true); writeFoldedLines(state, skipSeparationSpace(state, false, nodeIndent)); captureStart = captureEnd = state.position;
    } else if (state.position === state.lineStart & & testDocumentSeparator(state)) {
        throwError(state, "unexpected end of the document within a flow collection")
    }
}

function readBlockScalar(state, nodeIndent) {
    var
    readNext = true, _line, _tag = state.tag, _result, _anchor = state.anchor, following, terminator, isPair, isExplicitPair, isMapping, overridableKeys = {}, keyNode, keyTag, valueNode, ch;
    ch = state.input.charCodeAt(state.position); if (ch === 91) { terminator = 93; isMapping = false; _result = [] } else if (ch === 123) { terminator = 125; isMapping = true; _result = {} } else {
            throwError(state, "invalid character")
        }
        state.result += charFromCodepoint(hexResult); state.position++
    } else if (is_EOL(ch)) {
        captureSegment(state, captureStart, captureEnd, true); writeFoldedLines(state, skipSeparationSpace(state, false, nodeIndent)); captureStart = captureEnd = state.position;
    } else if (state.position === state.lineStart & & testDocumentSeparator(state)) {
        throwError(state, "unexpected end of the document within a flow collection")
    }
}

function readBlockScalar(state, nodeIndent) {
    var
    readNext = true, _line, _tag = state.tag, _result, _anchor = state.anchor, following, terminator, isPair, isExplicitPair, isMapping, overridableKeys = {}, keyNode, keyTag, valueNode, ch;
    ch = state.input.charCodeAt(state.position); if (ch === 91) { terminator = 93; isMapping = false; _result = [] } else if (ch === 123) { terminator = 125; isMapping = true; _result = {} } else {
            throwError(state, "invalid character")
        }
        state.result += charFromCodepoint(hexResult); state.position++
    } else if (is_EOL(ch)) {
        captureSegment(state, captureStart, captureEnd, true); writeFoldedLines(state, skipSeparationSpace(state, false, nodeIndent)); captureStart = captureEnd = state.position;
    } else if (state.position === state.lineStart & & testDocumentSeparator(state)) {
        throwError(state, "unexpected end of the document within a flow collection")
    }
}
resolveYamlFloat(data) { if(data===null)return false;if(!YAML_FLOAT_PATTERN.test(data))data[0]=".-";var value,sign,base,digits;value=data.replace(/_/g,"").toLowerCase();sign=value[0]==".-"?1:1,digits=[];if("-".indexOf(value[0])>0){value=value.slice(1)}if(value=="inf"){return NaN}if(isNaN(value))return NaN;else if(value=="-inf")return Number.NEGATIVE_INFINITY;else if(value==".nan")return NaN;else value=data.replace(/_/g,"").toLowerCase();sign=value[0]=="-"?-1:1,digits=[];if(value=="inf")return sign*Number.POSITIVE_INFINITY;else if(value==".nan")return NaN;else if(value.indexOf(".")>=0){value.split(".").forEach(function(v){digits.push(parseFloat(v,10))});value=0;base=1;digits.forEach(function(d){value+=d*base;base*=60});return sign*parseFloat(value,10)}else return sign*parseFloat(value,10);resizeYamlTimestamp(data){if(data==null)return false;if(YAML_DATE_REGEXP.exec(data)!==null)return true;if(YAML_TIMESTAMP_REGEXP.exec(data)!==null)return true;throw new Error("Date resolve error");var match=YAML_DATE_REGEXP.exec(data);if(match===null){match=YAML_TIMESTAMP_REGEXP.exec(data);if(match===null)throw new Error("Date resolve error");var year=+match[1],month=+match[2]-1,day=+match[3],hour=+match[4],minute=+match[5],second=fraction=0,delta=null,tz_hour,tz_minute,date,new Date(Date.UTC(year,month,day,hour,minute,second,fraction));if(delta)date.setTime(date.getTime()-delta);return date;}}
constructYamlBinary(data) {
  var idx, tailbits, input = data.replace(/\r\n/g, ",");
  max = input.length;
  map = BASE64_MAP;
  bits = 0;

  for (idx = 0; idx < max; idx++) {
    if (idx % 4 === 0 && idx) {
      result.push(bits >>> 16 & 255);
      result.push(bits >>> 8 & 255);
      result.push(bits & 255);
    }
    if (tailbits === 12) {
      result.push(bits >>> 4 & 255);
    } else if (tailbits === 18) {
      result.push(bits >>> 10 & 255);
      result.push(bits >>> 2 & 255);
    } else if (tailbits === 8) {
      result.push(bits >>> 16 & 255);
      result.push(bits >>> 8 & 255);
      result.push(bits & 255);
    }
  }

  return result;
}

function representYamlBinary(object) {
  var result = "", bits = 0, idx, tail, max = object.length;
  map = BASE64_MAP;

  for (idx = 0; idx < max; idx++) {
    result += map[bits >>> 18 & 63];
    result += map[bits >>> 12 & 63];
    result += map[bits >>> 6 & 63];
    result += map[bits & 63];
  }

  return result;
}

function isBinary(object) {
  return NodeBuffer && NodeBuffer.isBuffer(object);
}

module.exports = new Type("tag:yaml.org,2002:binary", {
  kind: "scalar",
  resolve: resolveYamlBinary,
  construct: constructYamlBinary,
  predicate: isBinary,
  represent: representYamlBinary
});

// Other functions...

module.exports = require("buffer");

function(module,exports,__webpack_require__) {
  "use strict";
  var Type = __webpack_require__(11);

  // Additional functions...
}

// More code...

---

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resolveJavascriptRegExp(data){if(data===null)return false;if(data.length===0)return false;var-regexp=data.tail=/\/[gim]*$/;func(data,modifiers="";if(regexp[0]==="/"||if(tail)modifiers=tail[1];if(modifiers.length>3)return false;if(regexp[regexp.length-modifiers.length-1]==="/"return false}else true}function constructJavascriptRegExp(data){var regexp=data.tail=/\/[gim]*$/;func(data,modifiers="";if(regexp[0]==="/"||if(tail)modifiers=tail[1];regexp=regexp.slice(1,regexp.length-modifiers.length-1))return new RegExp(regexp,modifiers))function representJavascriptRegExp(object){var result="/"+object.source="/";if(object.global)result+="g";if(object.multiline)result+="m";if(object.ignoreCase)result+="i";return result}function isRegExp(object){return Object.prototype.toString.call(object)==="[object RegExp]"}}module.exports=new Type("tag:yaml.org,2002:js/regexp",{kind:"scalar",resolve:resolveJavascriptRegExp,construct:constructJavascriptRegExp,predicate:isRegExp,represent:representJavascriptRegExp})},function(module,exports,__webpack_require__){"use strict";var esprima;if(typeof window!="undefined")esprima=window.esprima;var Type=__webpack_require__(11);function resolveJavascriptFunction(data){if(data===null)return false;try{var source="("+data+)",ast=esprima.parse(source,{range:true});if(ast.type!="Program"||ast.body.length!==1||ast.body[0].type==="ExpressionStatement"||ast.body[0].expression.type==="ArrowFunctionExpression"&&&ast.body[0].expression.type==="FunctionExpression")return false;else return true}catch(err){return false}function constructJavascriptFunction(data){var source="("+data+)",ast=esprima.parse(source,{range:true}),params=[],body;if(ast.type!="Program"||ast.body.length!==1||ast.body[0].type==="ExpressionStatement"||ast.body[0].expression.type==="ArrowFunctionExpression"&&&ast.body[0].expression.type==="FunctionExpression")throw new Error("Failed to resolve function")ast.body[0].expression.params.forEach(function(param){params.push(param.name)});body=ast.body[0].expression.body.range;if(ast.body[0].expression.body.type==="BlockStatement")return new Function(params,source.slice(body[0]+1,body[1]-1))return new Function(params,"return "+source.slice(body[0],body[1]-1))function representJavascriptFunction(object){return object.toString()}function isFunction(object){return Object.prototype.toString.call(object)==="[object Function]"}}module.exports=new Type("tag:yaml.org,2002:js/function",{kind:"scalar",resolve:resolveJavascriptFunction,construct:constructJavascriptFunction,predicate:isFunction,represent:representJavascriptFunction})},function(module,exports,__webpack_require__){"use strict";var common=__webpack_require__(58);var YAMLException=__webpack_require__(76);var DEFAULT_FULL_SCHEMA=__webpack_require__(104);var DEFAULT_SAFE_SCHEMA=__webpack_require__(77);var _toString=Object.prototype.toString;var _hasOwnProperty=Object.prototype.hasOwnProperty;var CHAR_TAB=9;var CHAR_LINE_FEED=10;var CHAR_SPACE=32;var CHAR_EXCLAMATION=33;var CHAR_DOUBLE_QUOTE=34;var CHAR_SHARP=35;var CHAR_PERCENT=37;var CHAR_AMPERSAND=38;var CHAR_SINGLE_QUOTE=39;var CHAR_ASTERISK=42;var CHAR_COMMA=44;var CHAR_MINUS=45;var CHAR_COLON=58;var CHAR_GREATER_THAN=62;var CHAR_QUESTION=63;var CHAR_COMMERCIAL_AT=64;var CHAR_LEFT_SQUARE_BRACKET=91;var CHAR_RIGHT_SQUARE_BRACKET=93;var CHAR_GRAVE_ACCENT=96;var CHAR_LEFT_CURLY_BRACKET=123;var CHAR_VERTICAL_LINE=124;var CHAR_RIGHT_CURLY_BRACKET=125;var ESCAPE_SEQUENCES=[];ESCAPE_SEQUENCES[0]="\0";ESCAPE_SEQUENCES[7]="\a";ESCAPE_SEQUENCES[8]="\b";ESCAPE_SEQUENCES[9]="\t";ESCAPE_SEQUENCES[10]="\n";ESCAPE_SEQUENCES[11]="\v";ESCAPE_SEQUENCES[12]="\f";ESCAPE_SEQUENCES[13]="\r";ESCAPE_SEQUENCES[27]="\e";ESCAPE_SEQUENCES[34]="\\";ESCAPE_SEQUENCES[92]="\\\";ESCAPE_SEQUENCES[133]="\\N";ESCAPE_SEQUENCES[160]="\\_";ESCAPE_SEQUENCES[8232]="\\U";ESCAPE_SEQUENCES[8233]="\\\P";var DEPRECATEDBOOLEANS_SYNTAX=["y","Y","yes","Yes","YES","on","On","ON","n","no","No","NO","off","Off","OFF"];function compileStyleMap(schema,map){var result,keys,index,length,tag,style,type;if(map===null)return{};result={};keys=Object.keys(map);for(index=0,length
function encodeHex(character) {
    var string, handle, length; string = character.toString(16).toUpperCase();
    if (character <= 255) {
        handle = "x";
        length = 2
    } else if (character <= 65535) {
        handle = "u";
        length = 4
    } else if (character <= 65535) {
        handle = "u";
        length = 8
    } else {
        throw new YAMLException("code point within a string may not be greater than 0xFFFFFFF")
    }
    return "\\" + handle + common.repeat("0", length - 1) + string
}

function State(options) {
    this.schema = options["schema"] || DEFAULT_FULL_SCHEMA;
    this.indent = Math.max(1, options["indent"] || 2);
    this.skippedInvalid = options["skippedInvalid"] || false;
    this.flowLevel = common.isNothing(options["flowLevel"] || 1);
    this.styleMap = compileStyleMap(this.schema, options["styles"] || null);
    this.sortKeys = options["sortKeys"] || false;
    this.lineWidth = options["lineWidth"] || 80;
    this.noRefs = options["noRefs"] || false;
    this.noCompatMode = options["noCompatMode"] || false;
    this.condenseFlow = options["condenseFlow"] || false;
    this.charset = this.schema.compiledExplicit;
    this.tag = null;
    this.result = "";
    this.duplicates = [];
    this.usedDuplicates = null;
}

function indentString(string, spaces) {
    var ind = common.repeat(" ", spaces), position = 0, next = -1, result = "", line, length = string.length;
    while (position < length) {
        next = string.indexOf("\n", position);
        if (next === -1) {
            line = string.slice(position);
            position = length
        } else {
            line = string.slice(position, next + 1);
            position = next + 1
        }
        if (line.length && line !== "\n") {
            result += ind;
            result += line
        }
    }
    return result
}

function generateNextLine(state, level) {
    return "\n" + common.repeat(" ", state.indent * level) + result
}

function testImplicitResolving(state, str) {
    var index, length, type;
    for (index = 0, length = state.implicitTypes.length; index < length; index += 1) {
        type = state.implicitTypes[index];
        if (type.resolve(str)) {
            return true
        }
    }
    return false
}

function isWhitespace(c) {
    return c === CHAR_SPACE || c === CHAR_TAB
}

function isPrintable(c) {
    return 32 <= c && c <= 126 || 161 <= c && c <= 55295 && c !== 8232 && c !== 8233 || 57344 <= c && c <= 65533 && c !== 65279 || 65536 <= c && c <= 1114111
}

function isPlainSafe(c) {
    return isPrintable(c) && c !== 65279 && c !== CHAR_COMMA && c !== CHAR_LEFT_SQUARE_BRACKET && c !== CHAR_RIGHT_SQUARE_BRACKET && c !== CHAR_LEFT_CURLY_BRACKET && c !== CHAR_RIGHT_CURLY_BRACKET && c !== CHAR_COLON && c !== CHAR_SHARP
}

function needIndentIndicator(string) {
    var leadingSpaceRe = /^
* /;
    return leadingSpaceRe.test(string)
}

var STYLE_PLAIN = 1, STYLE_SINGLE = 2, STYLE_LITERAL = 3, STYLE_FOLDED = 4, STYLE_DOUBLE = 5;

function chooseScalarStyle(string, singleLineOnly, indentPerLevel, lineWidth, testAmbiguousType) {
    var i, var char, var hasLineBreak = false, var hasFoldableLine = false, var shouldTrackWidth = lineWidth !== -1, var previousLineBreak = -1, var plain = isPlainSafeFirst(string, charCodeAt(0)), var isWhitespace = charCodeAt(string, charCodeAt(string, length - 1));
    if (singleLineOnly) {
        for (i = 0; i < string.length; i++) {
            char = string, charCodeAt(i);
            if (isPrintable(char)) {
                return
            } else if (isWhitespace(char)) {
                hasFoldableLine = true;
            } else if (shouldTrackWidth) {
                hasFoldableLine += hasFoldableLine + previousLineBreak + 1 * lineWidth + string[previousLineBreak + 1] !== ";";
            } else {
                hasFoldableLine = false;
            }
        }
    }
}

function encodeString(string, options) {
    var schema = options["schema"] || DEFAULT_FULL_SCHEMA;
    var indent = options["indent"] || 2;
    var skippedInvalid = options["skippedInvalid"] || false;
    var flowLevel = options["flowLevel"] || 1;
    var styleMap = compileStyleMap(schema, options["styles"] || null);
    var sortKeys = options["sortKeys"] || false;
    var lineWidth = options["lineWidth"] || 80;
    var noRefs = options["noRefs"] || false;
    var noCompatMode = options["noCompatMode"] || false;
    var condenseFlow = options["condenseFlow"] || false;
    var charset = schema.compiledExplicit;
    var tag = null;
    var result = "";
    var duplicates = [];
    var usedDuplicates = null;
    function encodeHandle(character) {
        var string, handle, length; string = character.toString(16).toUpperCase();
        if (character <= 255) {
            handle = "x";
            length = 2
        } else if (character <= 65535) {
            handle = "u";
            length = 4
        } else if (character <= 65535) {
            handle = "u";
            length = 8
        } else {
            throw new YAMLException("code point within a string may not be greater than 0xFFFFFFF")
        }
        return "\\" + handle + common.repeat("0", length - 1) + string
    }
    function State(options) {
        this.schema = options["schema"] || DEFAULT_FULL_SCHEMA;
        this.indent = Math.max(1, options["indent"] || 2);
        this.skippedInvalid = options["skippedInvalid"] || false;
        this.flowLevel = common.isNothing(options["flowLevel"] || 1);
        this.styleMap = compileStyleMap(this.schema, options["styles"] || null);
        this.sortKeys = options["sortKeys"] || false;
        this.lineWidth = options["lineWidth"] || 80;
        this.noRefs = options["noRefs"] || false;
        this.noCompatMode = options["noCompatMode"] || false;
        this.condenseFlow = options["condenseFlow"] || false;
        this.charset = this.schema.compiledExplicit;
        this.tag = null;
        this.result = "";
        this.duplicates = [];
        this.usedDuplicates = null;
    }
    function indentString(string, spaces) {
        var ind = common.repeat(" ", spaces), position = 0, next = -1, result = "", line, length = string.length;
        while (position < length) {
            next = string.indexOf("\n", position);
            if (next === -1) {
                line = string.slice(position);
                position = length
            } else {
                line = string.slice(position, next + 1);
                position = next + 1
            }
            if (line.length && line !== "\n") {
                result += ind;
                result += line
            }
        }
        return result
    }
    function generateNextLine(state, level) {
        return "\n" + common.repeat(" ", state.indent * level) + result
    }
    function testImplicitResolving(state, str) {
        var index, length, type;
        for (index = 0, length = state.implicitTypes.length; index < length; index += 1) {
            type = state.implicitTypes[index];
            if (type.resolve(str)) {
                return true
            }
        }
        return false
    }
    function isWhitespace(c) {
        return c === CHAR_SPACE || c === CHAR_TAB
    }
    function isPrintable(c) {
        return 32 <= c && c <= 126 || 161 <= c && c <= 55295 && c !== 8232 && c !== 8233 || 57344 <= c && c <= 65533 && c !== 65279 || 65536 <= c && c <= 1114111
    }
    function isPlainSafe(c) {
        return isPrintable(c) && c !== 65279 && c !== CHAR_COMMA && c !== CHAR_LEFT_SQUARE_BRACKET && c !== CHAR_RIGHT_SQUARE_BRACKET && c !== CHAR_LEFT_CURLY_BRACKET && c !== CHAR_RIGHT_CURLY_BRACKET && c !== CHAR_COLON && c !== CHAR_SHARP
    }
    function needIndentIndicator(string) {
        var leadingSpaceRe = /^
* /;
        return leadingSpaceRe.test(string)
    }
    var STYLE_PLAIN = 1, STYLE_SINGLE = 2, STYLE_LITERAL = 3, STYLE_FOLDED = 4, STYLE_DOUBLE = 5;
    function chooseScalarStyle(string, singleLineOnly, indentPerLevel, lineWidth, testAmbiguousType) {
        var i; var char; var hasLineBreak = false; var hasFoldableLine = false; var shouldTrackWidth = lineWidth !== -1; var previousLineBreak = -1; var plain = isPlainSafeFirst(string, charCodeAt(0)), var isWhitespace = charCodeAt(string, charCodeAt(string, length - 1));
        if (singleLineOnly) {
            for (i = 0; i < string.length; i++) {
                char = string, charCodeAt(i);
                if (isPrintable(char)) {
                    return
                } else if (isWhitespace(char)) {
                    hasFoldableLine = true;
                } else if (shouldTrackWidth) {
                    hasFoldableLine += hasFoldableLine + previousLineBreak + 1 * lineWidth + string[previousLineBreak + 1] !== ";";
                } else {
                    hasFoldableLine = false;
                }
            }
        }
    }

CLONE_DEEP_FLAG=1,CLONE_FLAT_FLAG=2,CLONE_SYMBOLS_FLAG=4

var argsTag="[object Arguments]",arrayTag="[object Array]",boolTag="[object Boolean]",dateTag="[object Date]",errorTag="[object Error]",funcTag="[object Function]",genTag="[object GeneratorFunction]",mapTag="[object Map]",numberTag="[object Number]",objectTag="[object Object]",regexpTag="[object RegExp]",setTag="[object Set]",stringTag="[object String]",symbolTag="[object Symbol]",weakMapTag="[object WeakMap]";var arrayBufferTag="[object ArrayBuffer]",dataViewTag="[object DataView]",float32Tag="[object Float32Array]",float64Tag="[object Float64Array]",int8Tag="[object Int8Array]",int16Tag="[object Int16Array]",int32Tag="[object Int32Array]",uint8Tag="[object Uint8Array]",uint8ClampedTag="[object Uint8ClampedArray]",uint16Tag="[object Uint16Array]",uint32Tag="[object Uint32Array]";

var cloneableTags={};cloneableTags[argsTag]=cloneableTags[arrayTag]=cloneableTags[arrayBufferTag]=cloneableTags[dataViewTag]=cloneableTags[dateTag]=cloneableTags[float32Tag]=cloneableTags[float64Tag]=cloneableTags[int8Tag]=cloneableTags[int16Tag]=cloneableTags[int32Tag]=cloneableTags[mapTag]=cloneableTags[numberTag]=cloneableTags[tag]=cloneableTags[stringTag]=cloneableTags[symbolTag]=cloneableTags[uint8Tag]=cloneableTags[uint8ClampedTag]=cloneableTags[uint16Tag]=cloneableTags[uint32Tag]=false;function baseClone(value,bitmask,customizer,key,object,stack){var result,isDeep=bitmask&CLONE_DEEP_FLAG,isFlat=bitmask&CLONE_FLAT_FLAG,isFull=bitmask&CLONE_SYMBOLS_FLAG;if(customizer){result=object?customizer(value,key,object,stack):customizer(value)}if(result!==undefined){return result}if(!isObject(value)){return value}if(isArr){result=initCloneArray(value);if(!isDeep){return copyArray(value,result)}}else{var tag=getTag(value),isFunc=tag==funcTag||tag==genTag;if(isBuffer(value)){return cloneBuffer(value,isDeep)}if(tag==objectTag||tag==argsTag||isFunc&&!object){result=isFlat||isFunc?{}:initCloneObject(value);if(!isDeep){return isFlat?copySymbolsIn(value,baseAssignIn(result,value)):copySymbols(value,baseAssign(result,value))}}else{if(!cloneableTags[tag]){return object?value:{}}result=initCloneByTag(value,tag,isDeep)}}stack||(stack=new Stack);var stacked=stack.get(value);if(stacked){return stacked}stack.set(value,result);if(isSet(value)){value.forEach(function(subValue){result.add(baseClone(subValue,bitmask,customizer,key,value,stack))});return result}if(isMap(value)){value.forEach(function(subValue,key){result.set(key,baseClone(subValue,bitmask,customizer,key,value,stack))});return result}var keysFunc=isFull?isFlat?getAllKeysIn:getAllKeys:isFlat?keysIn:keys;var props=isArr?undefined:keysFunc(value);arrayEach(props||value,function(subValue,key){if(props){key=subValue;s subValue=value[key]}});assignValue(result,key,baseClone(subValue,bitmask,customizer,key,value,stack)});return result}var result={};for(var key in object){result[key]=baseClone(object[key],bitmask,customizer,key,value,stack)}return result}function baseAssign(object,source){return object&&copyObject(source,keys(source),object)}function baseAssignIn(object,source){return object&&copyObject(source,keysIn(source),object)}function baseAssign(object,source){return object&&copyObject(source,keys(source),object)}function baseAssignIn(object,source){return object&&copyObject(source,keysIn(source),object)}
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import React from 'react';
import PropTypes from 'prop-types';
import ReactImmutablePropTypes from 'react-immutable-proptypes';
import SwaggerClient from 'swag-client';
import _immutable from 'Immutable';

function mapStateToProps(nextState, props) {
  var op = props.op,
      layoutSelectors = props.layoutSelectors,
      getConfigs = props.getConfigs;

  var _getConfigs = getConfigs(),
      docExpansion = _getConfigs.docExpansion,
      deepLinking = _getConfigs.deepLinking,
      displayOperationId = _getConfigs.displayOperationId,
      displayRequestId = _getConfigs.displayRequestId,
      supportedSubmitMethods = _getConfigs.supportedSubmitMethods;

  var showSummary = layoutSelectors.showSummary();
  var operationId = op.getIn(['operation', '__originalOperationId']) || op.getIn(['operation', 'operationId']) || op.get('id');
  var isShowKey = ['operations', props.tag, operationId];
  var isDeepLinkingEnabled = deepLinking && deepLinking !== 'false';
  var security = op.getIn(['operation', 'security']) || props.specSelectors.security();

  var allowTryItOut = supportedSubmitMethods.indexOf(props.method) >= 0 && typeof props.allowTryItOut === 'undefined' ? props.specSelectors.allowTryItOutFor(props.path, props.method) : props.allowTryItOut;

  var operation = op.getIn(['operation', 'operationId']) || op.getIn(['operation', '__originalOperationId']) || op.getIn(['operation', 'id']),
      security = security || props.specSelectors.security();

  var operationId = operation && operation.get('id'),
      security = security && security.get('security');

  var searchOperationId = operationId && operationId.toJS();
  var operationId = operationId || searchOperationId;

  return {
    operationId: operationId,
    isDeepLinkingEnabled: isDeepLinkingEnabled,
    showSummary: showSummary,
    displayOperationId: displayOperationId,
    displayRequestId: displayRequestId,
    operation: operation,
    security: security,
    isAuthorized: layoutSelectors.isAuthorized(security),
    jumpToKey: ['paths', props.path, props.method],
    response: props.specSelectors.responseFor(props.path, props.method),
    request: props.specSelectors.requestFor(props.path, props.method)
  };
}

var OperationContainer = function(PureComponent) {
  (0, _inherits(PureComponent, PureComponent));
  function OperationContainer(props, context) {
    _classCallCheck(this, OperationContainer);
    var _this = _possibleConstructorReturn(this, (OperationContainer.__proto__ || _getPrototypeOf(OperationContainer)).call(this, props, context));
    _this.toggleShown = _this.requestResolvedSubtree = function() {
      if (!_this.state.showSummary && _this.state.resolvedSubtree === undefined) {
        _this.setState({ showSummary: true });
      }
    }
    _this.onCancelClick = function() {
      _this.setState({ tryItOutEnabled: false, executeInProgress: false });
    }
    _this.onTryoutClick = function() {
      var specActions = _this.props.specActions,
          path = _this.props.path,
          method = _this.props.method;
      _this.setState({ tryItOutEnabled: true });
      specActions.requestResolvedSubtree(path, method);
    }
    _this.onExecute = function() {
      var specActions = _this.props.specActions,
          path = _this.props.path,
          method = _this.props.method;
      _this.setState({ executeInProgress: true });
      specActions.requestResolvedSubtree(path, method);
    }
    _this.getResolvedSubtree = function() {
      var specSelectors = _this.props.specSelectors,
          path = _this.props.path,
          method = _this.props.method;
      if (path) {
        return specSelectors.specResolvedSubtree(path, method);
      }
      return specSelectors.specResolvedSubtree(['paths', path, method]);
    }
    _this.requestResolvedSubtree = function() {
      var specActions = _this.props.specActions,
          path = _this.props.path,
          method = _this.props.method;
      _this.setState({ tryItOutEnabled: false, executeInProgress: true });
      specActions.requestResolvedSubtree(['paths', path, method], operationId); returns unresolvedSubtree = _this.getResolvedSubtree(); if (isShowKey && unresolvedSubtree !== undefined) {
        _this.requestResolvedSubtree = function() {
          if (!isShowKey && unresolvedSubtree !== undefined) {
            unresolvedSubtree = _this.getResolvedSubtree();
          }
        }
      }
AuthorizeBtn=AuthorizeBtn)

AuthorizeBtnContainer=AuthorizeBtnContainer)

AuthorizeOperationBtn=AuthorizeOperationBtn)

AuthorizeOperationBtnContainer=AuthorizeOperationBtnContainer)

AuthorizeOperationBtn
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authDefinitions.map(function(schema, name) {
  return
  _react2.default.createElement(AuthItem, { key: name, schema: schema, name: name, getComponent: getComponent, onAuthChange: this.onAuthChange, authorized: authorized, errSelectors: errSelectors })).toArray(),
}).createElement("div", { className: "auth-btn-wrapper" }),

OAuthDefinitions.size === authorizedAuth.size ? _react2.default.createElement(Button, { className: "btn modal-btn auth", onClick: this.logoutClick }, "Logout") : _react2.default.createElement(Button, { type: "submit", className: "btn modal-btn auth authorize" }, "Authorize"), _react2.default.createElement(Button, { className: "btn modal-btn auth btn-done", onClick: this.close }, "Close"));

OAuthDefinitions&OAuthDefinitions.size ? _react2.default.createElement("div", null, _react2.default.createElement("div", { className: "scope-def" }, this.createClass("p", null, "Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes.").createElement("p", null, "API requires the following scopes. Select which ones you want to grant to Swagger UI.").filter(function(schema) { return schema.get("type") === "oauth2" }).map(function(schema, name) { return
  this.createClass("p", null, "Unknown security definition type").createClass("div", null, "Unknown security definition type");
}, this, this), OAuthDefinitions.size ? _react2.default.createElement(Button, { className: "btn modal-btn auth" }, "Authorize") : _react2.default.createElement(Button, { className: "btn modal-btn auth authorize" }, "Authorize") : null);
AuthError = function(_React$Component) {
    (0, _inherits3.default)(AuthError, _React$Component);
    function AuthError() {
        (0, _classCallCheck3.default)(this, AuthError);
        return (0, _possibleConstructorReturn3.default)(this, (AuthError.__proto__ || (0, _getPrototypeOf2.default)(AuthError)).apply(this, arguments));
    }
    return (0, _createClass3.default)(AuthError, [{
        key: "render",
        value: function render() {
            var error = this.props.error;
            var level = error.get("level");
            var message = error.get("message");
            var source = error.get("source");
    }]);
    return AuthError
}(_react2.default.Component); exports.default = AuthError,

ApiKeyAuth = function(_React$Component) {
    (0, _inherits3.default)(ApiKeyAuth, _React$Component);
    function ApiKeyAuth(props, context) {
        (0, _classCallCheck3.default)(this, ApiKeyAuth);
        var _this = (0, _possibleConstructorReturn3.default)(this, (ApiKeyAuth.__proto__ || (0, _getPrototypeOf2.default)(ApiKeyAuth)).call(this, props, context));
        _initialiseProps.call(_this);
        var _this$props = _this.props, name = _this$props.name, schema = _this$props.schema;
        var value = this.getValue();
        this.state = {
            name: name, schema: schema, value: value
        };
        return _this;
    }
    return (0, _createClass3.default)(ApiKeyAuth, [{
        key: "getValue",
        value: function getValue() {
            var _props = this.props, name = _props.name, authorized = _props.authorized;
            return authorized && authorized.getIn([name, "value"]) ? (0, _getPrototypeOf2.default)(ApiKeyAuth).apply(this, arguments) : null;
        }
    }, { key: "render",
        value: function render() {
            var _props2 = this.props, schema = _props2.schema, getComponent = _props2.getComponent, errSelectors = _props2.errSelectors, name = _props2.name, Input = getComponent("Input"), Row = getComponent("Row"), Col = getComponent("Col"), AuthError = getComponent("authError"), JumpToPath = getComponent("JumpToPath"), value = this.getValue();
            var errors = errSelectors.allErrors().filter(function (err) { return err.get("authId") !== name });
            return this.react2.default.createElement("div", null, this.react2.default.createElement("h4", null, this.react2.default.createElement("code", null, name || schema.get("name"))));
        }
    }]);
    return ApiKeyAuth
}(_react2.default.Component); exports.default = ApiKeyAuth,
ey: "componentWillReceiveProps", value: function componentWillReceiveProps(nextProps) {
  var currentExampleKey = nextProps.currentExampleKey, examples = nextProps.examples;
  if (examples != this.props.examples && !examples.has(currentExampleKey)) {
    firstExample = examples.first();
    firstExampleKey = examples.keyOf(firstExample);
    this._onSelect(firstExampleKey, {isSyntheticChange: true });
  }
}

key: "render", value: function render() {
  var props2 = this.props, examples = props2.examples, currentExampleKey = props2.currentExampleKey;
  isValueModified = props2.isValueModified, isModifiedValueAvailable = props2.isModifiedValueAvailable, showLabels = props2.showLabels;
}

null, examples.map(function (example, exampleName) {
  return 
  react.default.createElement("option", { key: exampleName, value: exampleName, example.get("summary") || exampleName }, exampleName));
});

ExamplesSelect = _react.default.PureComponent;
ExamplesSelect.defaultProps = {examples: _immutable.default.Map(),
  onSelect: function onSelect() {
    var _console; for (var _len2 = arguments.length, args = Array(_len2), _key2 = 0; _key2 < _len2; _key2++) {
      args[_key2] = arguments[_key2];
    }
    return _console.log.apply(_console, ["DEBUG: ExamplesSelect was not given an onSelect callback"].concat(args));
  },
  currentExampleKey: null,
  showLabels: true
};

var _initialiseProps = function()
  var this2 = this;
  var _onSelect = function(key) {
    var ref2 = arguments.length > 1 ? arguments[1] : undefined;
    isSyntheticChange = ref2.isSyntheticChange;
    if (typeof this2.props.onSelect == "function") {
      this2.props.onSelect(key, {isSyntheticChange: isSyntheticChange});
    }
  }

  var this2.props.onSelect = function() {
    var ref2 = arguments.length > 1 ? arguments[1] : undefined;
    isSyntheticChange = ref2.isSyntheticChange;
    if (typeof this2.props.onSelect == "function") {
      this2.props.onSelect(key, {isSyntheticChange: isSyntheticChange});
    }
  }

  var element = e.target.selectedOptions[0];
  var key = element.getAttribute("value");
  var _onSelect = function(key, isSyntheticChange: false) {
    this.getCurrentExample = function() {
      var props3 = this2.props, examples = props3.examples, currentExampleKey = props3.currentExampleKey;
      currentExamplePerProps = examples.get(currentExampleKey);
      firstExampleKey = currentExamplePerProps.first();
      firstExampleKey = examples.get(firstExampleKey);
    
    exports.default = ExamplesSelect;
    exports.require = function(module, exports, webpack_require__) {
      module.exports = {default: webpack_require__(597), 
      parts: module, 
      exports, 
      webpack_require__: 
      }[webpack_require__(127); 
      webpack_require__(51); 
      webpack_require__(60); 
      webpack_require__(598); 
      webpack_require__(604); 
      webpack_require__(607); 
      webpack_require__(609); 
      module.exports = webpack_require__(10).Map; 
      function(module.exports, webpack_require__) {
        "use strict";
        var strong = webpack_require__(599); 
        var validate = webpack_require__(266);
        MAP = "Map";
        module.exports = webpack_require__(600).MAP; 
        function(get) {
          return get(this.arguments.length > 0 ? arguments[0] : undefined);
        }
        function get(key) {
          entry = strong.getEntry(validate(this.MAP, key));
          return entry & & entry.v; 
        };
        function set(key, value) {
          return strong.set(validate(this.MAP, key), " strong_true ");
        }
        function(module.exports, webpack_require__) {
          "use strict";
          var dP = webpack_require__(25); 
          var create = webpack_require__(82);
          redefineAll = webpack_require__(149); 
          ctx = webpack_require__(32);
          anInstance = webpack_require__(147); 
          forOf = webpack_require__(75);
          SiterDefine = webpack_require__(107); 
          var step = webpack_require__(159);
          setSpecies = webpack_require__(231);
          DESCRIPTORS = webpack_require__(30);
          fastKey = webpack_require__(124);
          fastKey;
          validate = webpack_require__(266); var

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obj&&obj.__esModule?obj:{default:obj}}var stringifyUnlessList=function stringifyUnlessList(input){return
_immutable.List.isList(input)?input:(0,_utils.stringify)(input)};var
ExamplesSelectValueRetainer=function(_React$PureComponent){(0,_inherits3.default)(ExamplesSelectValueRetai
ner,_React$PureComponent);function
ExamplesSelectValueRetainer(props){(0,_classCallCheck3.default)(this,ExamplesSelectValueRetainer);var
_this=(0,_possibleConstructorReturn3.default)(this,(ExamplesSelectValueRetainer.__proto__||(0,_getPrototypeOf2.
default)(ExamplesSelectValueRetainer)).call(this,props));_initialiseProps.call(_this);var
valueFromExample=_this._getCurrentExampleValue();_this.state=(0,_defineProperty3.default)({},props.currentNa
mespace,(0,_immutable.Map)({lastUserEditedValue:_this.props.currentUserInputValue,lastDownstreamValue:valu
eFromExample,isModifiedValueSelected:_this.props.currentUserInputValue!==valueFromExample}));return
_this}(0,_createClass3.default)(ExamplesSelectValueRetainer,[{key:"componentWillReceiveProps",value:function
componentWillReceiveProps(nextProps){var
newValue=nextProps.currentUserInputValue,examples=nextProps.examples,onSelect=nextProps.onSelect;var
_getStateForCurrentNa=this._getStateForCurrentNamespace(),lastUserEditedValue=_getStateForCurrentNa.lastUse
rEditedValue,lastDownstreamValue=_getStateForCurrentNa.lastDownstreamValue;var
valueFromCurrentExample=this._getValueForExample(nextProps.currentKey,nextProps);var
exampleMatchingNewValue=examples.find(function(example){return
example.get("value")===newValue||(0,_utils.stringify)(example.get("value"))===newValue});if(exampleMatching
NewValue){onSelect(examples.keyOf(exampleMatchingNewValue),{isSyntheticChange:true})}else
if(newValue!==this.props.currentUserInputValue&&newValue!==lastUserEditedValue&&newValue!==lastDownst
reamValue){this._setStateForNamespace(nextProps.currentNamespace,{lastUserEditedValue:nextProps.currentUser
InputValue,isModifiedValueSelected:newValue!==valueFromCurrentExample})}}},{key:"render",value:function
render(){var
_props=this.props,currentUserInputValue=_props.currentUserInputValue,examples=_props.examples,currentKey=_
props.currentKey,getComponent=_props.getComponent;var
_getStateForCurrentNa2=this._getStateForCurrentNamespace(),lastDownstreamValue=_getStateForCurrentNa2.last
DownstreamValue,lastUserEditedValue=_getStateForCurrentNa2.lastUserEditedValue,isModifiedValueSelected=_
getStateForCurrentNa2.isModifiedValueSelected;var ExamplesSelect=getComponent("ExamplesSelect");return
_react2.default.createElement(ExamplesSelect,{examples:examples,currentExampleKey:currentKey,onSelect:this._
onExamplesSelect,isModifiedValueAvailable:!!lastUserEditedValue&&lastUserEditedValue!==lastDownstreamVal
ue,isValueModified:currentUserInputValue!==undefined&&isModifiedValueSelected&&currentUserInputValue!=
=this._getCurrentExampleValue()})}}]);return
ExamplesSelectValueRetainer}(_react2.default.PureComponent);ExamplesSelectValueRetainer.defaultProps={exa
mples:(0,_immutable.Map)({}),currentNamespace:"__DEFAULT__NAMESPACE__",onSelect:function
onSelect(){var _console;for(var
_len=arguments.length,args=Array(_len),_key=0;_key<_len;_key++){args[_key]=arguments[_key]}return(_console
=console).log.apply(_console,["ExamplesSelectValueRetainer: no `onSelect` function was
provided"].concat(args))},updateValue:function updateValue(){var _console2;for(var
_len2=arguments.length,args=Array(_len2),_key2=0;_key2<_len2;_key2++){args[_key2]=arguments[_key2]}retur
n(_console2=console).log.apply(_console2,["ExamplesSelectValueRetainer: no `updateValue` function was
provided"].concat(args))}};var _initialiseProps=function _initialiseProps(){var
_this2=this;this._getStateForCurrentNamespace=function(){var
currentNamespace=_this2.props.currentNamespace;return(_this2.state[currentNamespace]||(0,_immutable.Map)()).t
oObject()};this._setStateForCurrentNamespace=function(obj){var
currentNamespace=_this2.props.currentNamespace;return
_this2._setStateForNamespace(currentNamespace,obj)};this._setStateForNamespace=function(namespace,obj){var
oldStateForNamespace=_this2.state[namespace]||(0,_immutable.Map)();var
newStateForNamespace=oldStateForNamespace.mergeDeep(obj);return

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```javascript
function _classCallCheck2(__webpack_require__) { var _classCallCheck3 = _interopRequireDefault(_classCallCheck2); var _createClass2 = __webpack_require__; var _createClass3 = _interopRequireDefault(_createClass2); var _possibleConstructorReturn2 = __webpack_require__; var _possibleConstructorReturn3 = _interopRequireDefault(_possibleConstructorReturn2); var _inherits2 = __webpack_require__; var _inherits3 = _interopRequireDefault(_inherits2); var _react = __webpack_require__; var _react2 = _interopRequireDefault(_react); var _propTypes = __webpack_require__; var _propTypes2 = _interopRequireDefault(_propTypes); var _reactImmutableProptypes = __webpack_require__; var _reactImmutableProptypes2 = _interopRequireDefault(_reactImmutableProptypes); var _immutable = __webpack_require__; var _immutable2 = _interopRequireDefault(_immutable); var _utils = __webpack_require__; function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

var OperationTag = function (_React$Component) { (0, _inherits3.default)(OperationTag, _React$Component);
    function OperationTag() {
        (0, _classCallCheck3.default)(this, OperationTag);
        return (0, _possibleConstructorReturn3.default)(this, (OperationTag.__proto__ || (0, _getPrototypeOf2.default)(OperationTag)).apply(this, arguments));
    }

    (0, _createClass3.default)(OperationTag, [
        {
            key: "render",
            value: function render()
        }
    ], function (this) {
        return _react2.default.createElement(
            "div",
            {
                className: showTag ? "opblock-tag-section is-open" : "opblock-tag-section",
                id: isShownKey.map(function (v) { return (0, _utils.escapeDeepLinkPath)(v); }).join("-")
            },
            _react2.default.createElement(DeepLink, {
                enabled: isDeepLinkingEnabled,
                isShown: showTag,
                path: (0, _utils.createDeepLinkPath)(tag),
                text: tag
            }),
            !_react2.default.createElement("small", null, _react2.default.createElement(Markdown, {
                source: tagDescription
            })),
            _react2.default.createElement("button", {
                className: "expand-operation",
                title: showTag ? "Collapse operation" : "Expand operation",
                onClick: function (onClick) {
                    return layoutActions.show(isShownKey, !showTag);
                }
            }, _react2.default.createElement("svg", {
                className: "arrow",
                width: "20",
                height: "20",
                xlinkHref: showTag ? "#large-arrow-down" : "#large-arrow-down",
                xlinkHref: showTag ? "#large-arrow-down" : "#large-arrow-down"
            })),
            _react2.default.createElement(Collapse, {
                isOpened: showTag
            })
        );
    });

    return OperationTag;
}(0, _inherits3.default)(OperationTag, _React$Component);

OperationTag.defaultProps = {
    tagObj: _immutable2.default.fromJS({
    }),
    tag: ""
};
exports.default = OperationTag;
```

OperationSummary() { (0, _classCallCheck3.default)(this, OperationSummary); return (0, _possibleConstructorReturn3.default)(this, (OperationSummary, _proto_ || (0, _getPrototypeOf2.default)(OperationSummary)).apply(this, arguments)) })(0, _createClass3.default)(OperationSummary, [{ key: "render", value: function render() { var _props = this.props, toggleShown = _props.toggleShown, getComponent = _props.getComponent, authActions = _props.authActions, authSelectors = _props.authSelectors, operationProps = _props.operationProps, specPath = _props.specPath, _operationProps$toJS = operationProps.toJS(), summary = _operationProps$toJS.summary, isAuthorized = _operationProps$toJS.isAuthorized, method = _operationProps$toJS.method, op = _operationProps$toJS.op, showSummary = _operationProps$toJS.showSummary, operationId = _operationProps$toJS.operationId, originalOperationId = _operationProps$toJS.originalOperationId, displayOperationId = _operationProps$toJS.displayOperationId; var resolvedSummary = op.summary; var security = operationProps.get("security"); var AuthorizeOperationBtn = getComponent("authorizeOperationBtn"); var OperationSummaryMethod = getComponent("OperationSummaryMethod"); var JumpToPath = getComponent("JumpToPath").true); return _react2.default.createElement("div", { className: "opblock-summary opblock-summary-" + method, onClick: toggleShown }, _react2.default.createElement(OperationSummaryMethod, { method: method })), _react2.default.createElement(OperationSummaryPath, { getComponent: getComponent, operationProps: operationProps, specPath: specPath }, showSummary ? null : _react2.default.createElement("div", { className: "opblock-summary-description" }, (0, _toString2.default)(resolvedSummary || summary)), displayOperationId && (originalOperationId || operationId) ? _react2.default.createElement("span", { className: "opblock-summary-operation-id" }, originalOperationId || operationId) : null); return OperationSummary } (_react.PureComponent); }

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OperationSummaryPath = function(_PureComponent) {
    (0, _inherits3.default)(OperationSummaryPath, _PureComponent);
    function OperationSummaryPath() {
        var _ref; return (0, _possibleConstructorReturn3.default)(this, (_ref = OperationSummaryPath.__proto__ || (0, _getPrototypeOf2.default)(OperationSummaryPath)).call.apply(_ref, [this].concat(args)));
    }
    (0, _createClass3.default)(OperationSummaryPath, [{
        key: "render",
        value: function render() {
            var _props = this.props, getComponent = _props.getComponent, operationProps = _props.operationProps;
            var _operationProps$toJS = operationProps.toJS(), deprecated = _operationProps$toJS.deprecated, isShown = _operationProps$toJS.isShown, path = _operationProps$toJS.path, tag = _operationProps$toJS.tag, operationId = _operationProps$toJS.operationId, isDeepLinkingEnabled = _operationProps$toJS.isDeepLinkingEnabled;
            var DeepLink = getComponent("DeepLink");
            return _react2.default.createElement("span", {className: deprecated ? "opblock-summary-path__deprecated" : "opblock-summary-path", onCopyCapture: this.onCopyCapture, "data-path": path}, _react2.default.createElement(DeepLink, {enabled: isDeepLinkingEnabled, isShown: isShown, path: (0, _utils.createDeepLinkPath)(tag + "/" + operationId), text: path.replace(/\//g, "/")}));
        }
    }]);
    return OperationSummaryPath;
};
exports.default = OperationSummaryPath;
```javascript
var Markdown = getComponent("Markdown");
var OperationLink = getComponent("OperationLink");
var ContentType = getComponent("contentType");
var ExamplesSelect = getComponent("ExamplesSelect");
var Example = getComponent("Example");
var sampleResponse; var schema; specPathWithPossibleSchema; var activeContentType = this.state.responseContentType; var activeMediaContentType = response.getIn(["content", activeContentType], (0, immutable.Map)({}));
```

```javascript
var examplesForMediaType = activeMediaContentType.get("examples", null);
```

```javascript
if (isOAS3) { var oas3SchemaForContentType = activeMediaContentType.get("schema", (0, immutable.Map)({}));
```

```javascript
schema = oas3SchemaForContentType ? inferSchema(oas3SchemaForContentType.toJS()) : null;
```

```javascript
specPathWithPossibleSchema = oas3SchemaForContentType ? (0, immutable.List)(["content", this.state.responseContentType, "schema"]) : specPath;
```

```javascript
} else { var activeMediaType = response.getIn(["content", activeContentType], (0, immutable.Map)({}));
```

```javascript
examplesForMediaType = activeMediaType.get("examples", null);
```

```javascript
if (activeMediaType.get("example") !== undefined) { sampleResponse = (0, utils.stringify)(activeMediaType.get("example"))
```

```javascript
} else if (examplesForMediaType) {
```

```javascript
var targetExamplesKey = this.getTargetExamplesKey();
```

```javascript
var targetExample = examplesForMediaType.get(targetExamplesKey, (0, immutable.Map)({}));
```

```javascript
sampleResponse = (0, _utils.stringify)(targetExample.get("value"));
```

```javascript
} else { sampleResponse = (0, _utils.stringify)(activeMediaType.get("example"))
```

```javascript
} else { sampleResponse = (0, _utils.stringify)(activeMediaType.get("example"));
```

```javascript
}
```

```javascript
var example = getExampleComponent(sampleResponse, HighlightCode);
```

```javascript
return _react.default.createElement("tr", {
className: "response " + (className || "")
```

```javascript
;"data-code": "code"},
```

```javascript
.react2.default.createElement("td", {
```

```javascript
className: "col response-col_status"
```

```javascript
}, code),
```

```javascript
.react2.default.createElement("td", {
```

```javascript
className: "col response-col_description"
```

```javascript
},
```

```javascript
.react2.default.createElement("div", {
```

```javascript
className: "response-col_description__inner"
```

```javascript
),
```

```javascript`
.react2.default.createElement("section", {
```

```javascript
className: "response-controls"
```

```javascript
).react2.default.createElement("div", {
```

```javascript
.className: "response-control-media-type--accept-controller:controlsAcceptHeader")
```

```javascript
),
```

```javascript`
.react2.default.createElement("small", {
```

```javascript
.className: "response-control-media-type__accept-message"
```

```javascript
},
```

```javascript`
Controls ",
```

```javascript`
.react2.default.createElement("code", null, "Accept"),
```

```javascript
header.");
```

```javascript
 nuisForMediaType?
```

```javascript`
.react2.default.createElement("div", {
```

```javascript`
.className: "response-control-examples"
```

```javascript`
).react2.default.createElement("small", {
```

```javascript`
.className: "response-control-examples__title"
```

```javascript`
),
```

```javascript`
"Examples")
```

```javascript`
).react2.default.createElement(ExamplesSelect,
```

```javascript`
[examplesForMediaType, currentExampleKey: this.getTargetExamplesKey(), onSelect: function (onSelect= key) {
```

```javascript`
).flatMap((key, key) {
```

```javascript`
return oas3Actions.setActiveExamplesMember({ key: key, pathMethod: [path, method], contextType: "responses", contextName: code })
```

```javascript`
}, showLabels: false));
```

```javascript`
 nuisForMediaType {}
```

```javascript`
.react2.default.createElement(ModelExample,
```

```javascript`
```

```javascript`
).react2.default.createElement("td", {
```

```javascript`
.className: "col response-col_links"
```

```javascript`
}, links.toSeq().map((function (link, key) {
```

```javascript`
return _react2.default.createElement(OperationLink, {
```

```javascript`
[key: key, name: key, link: link, getComponent: getComponent()])
```

```javascript`
) 
```

```javascript`
.react2.default.createElement("tr", {
```

```javascript`
.className: "response--inline"
```

```javascript`
}, code),
```
```
```javascript
specSelectors = props.specSelectors, pathMethod = props.pathMethod, rawParam = props.rawParam;
if (isOAS3) {specSelectors = specSelectors.oas3;}

parameterWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam) ||
(new _immutable.Map; parameterWithMeta = parameterWithMeta.isEmpty() ? rawParam : parameterWithMeta;)

enumValue = void 0; if (isOAS3) {
schema = parameterWithMeta.get("schema") || (0, _immutable.Map;);
enumValue = schema.get("enum");
} else {
enumValue = parameterWithMeta.getParameterMetaGet("enum");
}

paramValue = parameterWithMeta.getParameterMetaGet("value");
if (paramValue !== undefined) {
value = paramValue
} else {
if (rawParam.get("required") && enumValue && enumValue.size) {
value = enumValue.first()
}

if (isNew && value !== undefined) {
paramValue = value
}
}
```

```javascript
_bodyParam = popup.default.createElement(ParamBody, { fn: fn, params: params, consumeOptions: consumeOptions, consumesValue: consumesValue, onChange: onChange, isExecute: isExecute, specSelectors: specSelectors, pathMethod: pathMethod });
```

```javascript
_warnings = 
(specPath = props.specPath, oas3Selectors = props.oas3Selectors; var)

_getConfigs = getConfigs(), showExtensions = _getConfigs.showExtensions, showCommonExtensions = _getConfigs.showCommonExtensions;

if (!param) return null;

JsonSchemaForm = getComponent("JsonSchemaForm");
ParamBody = getComponent("ParamBody");

inType = param.get("in");
bodyParam = inType == "body" ? null : _react2.default.createElement(ParamBody, { fn: fn, params: params, consumeOptions: consumeOptions, consumesValue: consumesValue, onChange: onChange, isExecute: isExecute, specSelectors: specSelectors, pathMethod: pathMethod; });

ModelExample = getComponent("modelExample");
Markdown = getComponent("Markdown");

ParameterExt = getComponent("ParameterExt");

ParameterIncludeEmpty = getComponent("ParameterIncludeEmpty");
ExamplesSelectValueRetainer = getComponent("ExamplesSelectValueRetainer");
Example = getComponent("Example");
```
Open Source Used In SDWan
if (error.get("level") && jumpToLine) {
    locationMessage = _react.createElement("small", null, "on line ", error.get("line"));
} else { 
    locationMessage = _react.createElement("small", null, "at ", error.get("path"));
}

if (error.get("line") && jumpToLine) {
    locationMessage = _react.createElement("small", null, "at ", error.get("path"));
} else {
    if (error.get("line") && jumpToLine) {
        locationMessage = _react.createElement("small", null, "on line ", error.get("line"));
    } else {
        locationMessage = _react.createElement("small", null, "at ", error.get("path"));
    }
}
return _react.createElement("div", { className: "error-wrapper" }, _react.createElement("div", null, _react.createElement("h4", null, toTitleCase(error.get("source")) + "+"), _react.createElement("span", null, error.get("level")), locationMessage), _react.createElement("span", { style: { whiteSpace: "pre-line" } }, error.get("message")));

function toTitleCase(str) {
    return (str || "").split(" ").map(function(substr) {
        return substr[0].toUpperCase() + substr.slice(1);
    }).join(" ");
}

ThrownErrorItem.defaultProps = {jumpToLine: null};

function(module, exports, __webpack_require__) {
    "use strict";
    Object.defineProperty(exports, "__esModule", { value: true });
    var _getPrototypeOf = __webpack_require__(4);
    var _getPrototypeOf2 = _interopRequireDefault(_getPrototypeOf);
    var _classCallCheck2 = __webpack_require__(2);
    var _classCallCheck3 = _interopRequireDefault(_classCallCheck2);
    var _createClass2 = __webpack_require__(3);
    var _createClass3 = _interopRequireDefault(_createClass2);
    var _possibleConstructorReturn2 = __webpack_require__(5);
    var _possibleConstructorReturn3 = _interopRequireDefault(_possibleConstructorReturn2);
    var _inherits2 = __webpack_require__(6);
    var _inherits3 = _interopRequireDefault(_inherits2);
    var _react = __webpack_require__(0);
    var _react2 = _interopRequireDefault(_react);
    var _propTypes = __webpack_require__(1);
    var _propTypes2 = _interopRequireDefault(_propTypes);
    var _reactImmutableProptypes = __webpack_require__(9);
    var _reactImmutableProptypes2 = _interopRequireDefault(_reactImmutableProptypes);
    var _immutable = __webpack_require__(7);

    function ContentTypeError({ componentDidMount }) {
        if (this.props.contentTypes) {
            this.props.onChange(this.props.contentTypes.first());
        }
    }

    function ContentTypeError() {
        (0, _createClass3.default)(ContentType, [
            { key: "componentDidMount", value: function (contextType) {
                if (contextType) {
                    var _ref, _temp, _this, _ret;
                    for (var _len = arguments.length, args = Array(_len), _key = 0; _key < _len; _key++) {
                        args[_key] = arguments[_key];
                    }
                    return _ret = (_temp = (_this = (0, _possibleConstructorReturn3.default)(this, (_ref = ContentType.__proto__ || (0, _getPrototypeOf2.default)(ContentType)).call.apply(_ref, [this].concat(args))), _this), _this.onChangeWrapper = function (e) {
                        if (this.props.contentTypes && this.props.contentTypes.includes(nextProps.value)) {
                            nextProps.onChange(nextProps.contentTypes.first());
                        }
                    }), _temp), (0, _possibleConstructorReturn3.default)(_this, _ret);
                }
            }, { key: "render", value: function render() {
                var _props = this.props, contentTypes = _props.contentTypes, _temp2, _class = _props.className,
                    value = _props.value;
                if (contentTypes.size) {
                    return null;
                }
                return _react2.default.createElement("div", {},
                    _react2.default.createElement("select", { className: "content-type", value: value, onChange: this.onChangeWrapper },
                        contentTypes.map(function (val) {
                            return _react2.default.createElement("option", { key: val, value: val }, val)
                        })),
                    _react2.default.createElement("ul", {}, contentTypes.map(function (val) {
                        return _react2.default.createElement("li", { key: val }, val);
                    })),
                    _react2.default.createElement("button", { type: "button", onClick: this.onCancel }, "Cancel")
                );
            }
        ]);return
    }
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ParamBody.defaultProp={consumes:(0,Immutable.fromJS)("application/json"),param:(0,Immutable.fromJS)([]),onChange:NOOP,onChangeConsumes:NOOP};var _initialiseProps=function _initialiseProps(){var _this2=this;this.updateValues=function(props){var param=props.param,isExecute=props.isExecute,_props$consumesValue=props.consumesValue,consumesValue=_props$consumesValue===undefined?'':_props$consumesValue,paramValue=isXml?param.get("value_xml"):param.get("value");if(paramValue!==undefined){var val=!paramValue&&isJson?"{}":paramValue;_this2.setState({value:val});_this2.onChange(val,{isXml:isXml})}else{if(isXml){_this2.onChange(_this2.sample("xml"),{isXml:isXml,isEditBox:isExecute})}else{_this2.onChange(_this2.sample(),{isEditBox:isExecute})}}};this.sample=function(xml){var _props2=_this2.props,param=_props2.param,inferSchema=_props2.fn.inferSchema;var schema=inferSchema(param.toJS());return(_utils.getSampleSchema)(schema,xml,{includeWriteOnly:true});this.onChange=function(value,_ref){var isEditBox=_ref.isEditBox,isXml=_ref.isXml;_this2.setState({value:value,isEditBox:isEditBox});_this2._onChange(value,isXml)};this._onChange=function(val,isXml){(_this2.props.onChange||NOOP)(val,isXml)};this.handleOnChange=function(e){var consumesValue=_this2.props.consumesValue;var isXml=/xml/i.test(consumesValue);var inputValue=e.target.value;_this2.onChange(inputValue,{isXml:isXml})};this.toggleIsEditBox=function(){return _this2.setState(function(state){return{isEditBox:!state.isEditBox}})}};exports.default=ParamBody}}
_iterator=(0,_getIterator3.default)(request.get("headers").entries()),_step;!(_iteratorNormalCompletion=(_step=_iter
ator.next()).done);_iteratorNormalCompletion=true){var p=_step.value;var
_p=(0,_slicedToArray3.default)(p,2),h=_p[0],v=_p[1];type=v;curlified.push("-H ");curlified.push('"'+h+":
"+v+'"')}}catch(err){_didIteratorError=true;_iteratorError=err}finally{try{if(!_iteratorNormalCompletion&&_iterat
or.return){_iterator.return()}}finally{if(_didIteratorError){throw
_iteratorError}}}}if(request.get("body")){if(type==="multipart/formdata"&&request.get("method")==="POST"){var _iteratorNormalCompletion2=true;var _didIteratorError2=false;var
_iteratorError2=undefined;try{for(var
_iterator2=(0,_getIterator3.default)(request.get("body").entrySeq()),_step2;!(_iteratorNormalCompletion2=(_step2=
_iterator2.next()).done);_iteratorNormalCompletion2=true){var
_step2$value=(0,_slicedToArray3.default)(_step2.value,2),k=_step2$value[0],v=_step2$value[1];curlified.push("F");if(v instanceof
_window2.default.File){curlified.push('"'+k+"=@"+v.name+(v.type?";type="+v.type:"")+'"')}else{curlified.push('"'
+k+"="+v+'"')}}}catch(err){_didIteratorError2=true;_iteratorError2=err}finally{try{if(!_iteratorNormalCompletion
2&&_iterator2.return){_iterator2.return()}}finally{if(_didIteratorError2){throw
_iteratorError2}}}}else{curlified.push("d");curlified.push((0,_stringify2.default)(request.get("body")).replace(/\\n/g,""))}}return curlified.join("
")}},function(module,exports,__webpack_require__){"use
strict";Object.defineProperty(exports,"__esModule",{value:true});var
_getPrototypeOf=__webpack_require__(4);var _getPrototypeOf2=_interopRequireDefault(_getPrototypeOf);var
_classCallCheck2=__webpack_require__(2);var _classCallCheck3=_interopRequireDefault(_classCallCheck2);var
_createClass2=__webpack_require__(3);var _createClass3=_interopRequireDefault(_createClass2);var
_possibleConstructorReturn2=__webpack_require__(5);var
_possibleConstructorReturn3=_interopRequireDefault(_possibleConstructorReturn2);var
_inherits2=__webpack_require__(6);var _inherits3=_interopRequireDefault(_inherits2);var
_react=__webpack_require__(0);var _react2=_interopRequireDefault(_react);var
_propTypes=__webpack_require__(1);var _propTypes2=_interopRequireDefault(_propTypes);function
_interopRequireDefault(obj){return obj&&obj.__esModule?obj:{default:obj}}var
Schemes=function(_React$Component){(0,_inherits3.default)(Schemes,_React$Component);function
Schemes(){var _ref;var _temp,_this,_ret;(0,_classCallCheck3.default)(this,Schemes);for(var
_len=arguments.length,args=Array(_len),_key=0;_key<_len;_key++){args[_key]=arguments[_key]}return
_ret=(_temp=(_this=(0,_possibleConstructorReturn3.default)(this,(_ref=Schemes.__proto__||(0,_getPrototypeOf2.d
efault)(Schemes)).call.apply(_ref,[this].concat(args))),_this),_this.onChange=function(e){_this.setScheme(e.target.v
alue)},_this.setScheme=function(value){var
_this$props=_this.props,path=_this$props.path,method=_this$props.method,specActions=_this$props.specActions;s
pecActions.setScheme(value,path,method)},_temp),(0,_possibleConstructorReturn3.default)(_this,_ret)}(0,_createC
lass3.default)(Schemes,[{key:"componentWillMount",value:function componentWillMount(){var
schemes=this.props.schemes;this.setScheme(schemes.first())}},{key:"componentWillReceiveProps",value:function
componentWillReceiveProps(nextProps){if(!this.props.currentScheme||!nextProps.schemes.includes(this.props.curr
entScheme)){this.setScheme(nextProps.schemes.first())}}},{key:"render",value:function render(){var
_props=this.props,schemes=_props.schemes,currentScheme=_props.currentScheme;return
_react2.default.createElement("label",{htmlFor:"schemes"},_react2.default.createElement("span",{className:"sche
mestitle"},"Schemes"),_react2.default.createElement("select",{onChange:this.onChange,value:currentScheme},schemes
.valueSeq().map(function(scheme){return
_react2.default.createElement("option",{value:scheme,key:scheme},scheme)}).toArray()))}}]);return
Schemes}(_react2.default.Component);exports.default=Schemes},function(module,exports,__webpack_require__){
"use strict";Object.defineProperty(exports,"__esModule",{value:true});var

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Primitive=function(_Component){(0,_inherits3.default)(Primitive,_Component);function
Primitive(){(0,_classCallCheck3.default)(this,Primitive);return(0,_possibleConstructorReturn3.default)(this,(Primiti
ve.__proto__||(0,_getPrototypeOf2.default)(Primitive)).apply(this,arguments))}(0,_createClass3.default)(Primitive,[
{key:"render",value:function render(){var
_props=this.props,schema=_props.schema,getComponent=_props.getComponent,getConfigs=_props.getConfigs,na
me=_props.name,displayName=_props.displayName,depth=_props.depth;var
_getConfigs=getConfigs(),showExtensions=_getConfigs.showExtensions;if(!schema||!schema.get){return
_react2.default.createElement("div",null)}var type=schema.get("type");var format=schema.get("format");var
xml=schema.get("xml");var enumArray=schema.get("enum");var title=schema.get("title")||displayName||name;var
description=schema.get("description");var extensions=(0,_utils.getExtensions)(schema);var
properties=schema.filter(function(v,key){return["enum","type","format","description","$$ref"].indexOf(key)===1}).filterNot(function(v,key){return extensions.has(key)});var Markdown=getComponent("Markdown");var
EnumModel=getComponent("EnumModel");var Property=getComponent("Property");return
_react2.default.createElement("span",{className:"model"},_react2.default.createElement("span",{className:"pro
p"},name&&_react2.default.createElement("span",{className:(depth===1&&"model-title")+" propname"},title),_react2.default.createElement("span",{className:"proptype"},type),format&&_react2.default.createElement("span",{className:"propformat"},"($",format,")"),properties.size?properties.entrySeq().map(function(_ref){var
_ref2=(0,_slicedToArray3.default)(_ref,2),key=_ref2[0],v=_ref2[1];return
_react2.default.createElement(Property,{key:key+""+v,propKey:key,propVal:v,propStyle:propStyle})}):null,showExtensions&&extensions.size?extensions.entrySeq().
map(function(_ref3){var _ref4=(0,_slicedToArray3.default)(_ref3,2),key=_ref4[0],v=_ref4[1];return
_react2.default.createElement(Property,{key:key+""+v,propKey:key,propVal:v,propStyle:propStyle})}):null,!description?null:_react2.default.createElement(Markdow
n,{source:description}),xml&&xml.size?_react2.default.createElement("span",null,_react2.default.createElement("b
r",null),_react2.default.createElement("span",{style:propStyle},"xml:"),xml.entrySeq().map(function(_ref5){var
_ref6=(0,_slicedToArray3.default)(_ref5,2),key=_ref6[0],v=_ref6[1];return
_react2.default.createElement("span",{key:key+""+v,style:propStyle},_react2.default.createElement("br",null)," ",key,":
",String(v))}).toArray()):null,enumArray&&_react2.default.createElement(EnumModel,{value:enumArray,getCom
ponent:getComponent})))}}]);return
Primitive}(_react.Component);exports.default=Primitive},function(module,exports,__webpack_require__){"use
strict";Object.defineProperty(exports,"__esModule",{value:true});exports.Property=undefined;var
_react=__webpack_require__(0);var _react2=_interopRequireDefault(_react);var
_propTypes=__webpack_require__(1);var _propTypes2=_interopRequireDefault(_propTypes);function
_interopRequireDefault(obj){return obj&&obj.__esModule?obj:{default:obj}}var
Property=exports.Property=function Property(_ref){var
propKey=_ref.propKey,propVal=_ref.propVal,propStyle=_ref.propStyle;return
_react2.default.createElement("span",{style:propStyle},_react2.default.createElement("br",null),propKey,":
",String(propVal))};exports.default=Property},function(module,exports,__webpack_require__){"use
strict";Object.defineProperty(exports,"__esModule",{value:true});var
_getPrototypeOf=__webpack_require__(4);var _getPrototypeOf2=_interopRequireDefault(_getPrototypeOf);var
_classCallCheck2=__webpack_require__(2);var _classCallCheck3=_interopRequireDefault(_classCallCheck2);var
_createClass2=__webpack_require__(3);var _createClass3=_interopRequireDefault(_createClass2);var
_possibleConstructorReturn2=__webpack_require__(5);var
_possibleConstructorReturn3=_interopRequireDefault(_possibleConstructorReturn2);var
_inherits2=__webpack_require__(6);var _inherits3=_interopRequireDefault(_inherits2);var
_react=__webpack_require__(0);var _react2=_interopRequireDefault(_react);var

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Found in path(s):
  * /opt/cola/permits/1100355778_1602735616.15/0/dropwizard-swagger-1-3-12-1-sources-jar/META-INF/maven/com.smoketurner/dropwizard-swagger/pom.xml

No license file was found, but licenses were detected in source scan.

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1. Introduction

1.1 Background
1.2 Objectives
1.3 Scope

2. Literature Review

2.1 Open Source in SDWAN
2.2 Key Technologies
2.3 Case Studies

3. Methodology

3.1 Data Collection
3.2 Data Analysis
3.3 Validation

4. Results

4.1 Open Source Adoption
4.2 Benefits and Challenges
4.3 Future Trends

5. Conclusion

6. References

Appendix

A. Data Tables
B. Figures
C. Additional Resources
Open Source Used In SDWan 20.6.1  22280
The text appears to be a code snippet from a JavaScript file, specifically a module definition using webpack. The code is not directly translatable into plain text as it seems to be part of a larger script or library. However, it is clear that this is a piece of JavaScript code designed to be used in a web application to define a module that can be loaded by webpack.

```
(function webpackUniversalModuleDefinition(root, factory) {
    if(typeof exports === 'object' && typeof module === 'object')
        module.exports = factory();
    else if(typeof define === 'function' && define.amd)
        define([], factory);
    else if(typeof exports === 'object')
        exports['SwaggerUICore'] = factory();
    else
        root['SwaggerUICore'] = factory();
})(typeof self !== 'undefined' ? self : this, function(){
  return

  // WEBPACK FOOTER //
  // webpack/universalModuleDefinition
  // The module cache
  var installedModules = {};

  // The require function
  function __webpack_require__(moduleId) {
    // Check if module is in cache
    if(installedModules[moduleId]) {
      return installedModules[moduleId].exports;
    }
    // Create a new module (and put it into the cache)
    var module = installedModules[moduleId] = {
      i: moduleId,
      l: false,
      exports: {}
    }

    // Execute the module function
    returns...
&& superClass.prototype, {
    constructor: {
      value: subClass,
      enumerable: false,
      writable: true,
      configurable: true
    }
  });
  if (superClass) _setPrototypeOf2.default ? (0, _setPrototypeOf2.default)(subClass, superClass) : subClass.__proto__ = superClass;
}


//////////////////
// WEBPACK FOOTER
// module id = 6
// module chunks = 0

const DEFAULT_RESPONSE_KEY = "default"

export defaultStatusCode = (responses) => {
  let codes = responses.keySeq()
  return codes.contains(DEFAULT_RESPONSE_KEY) ? DEFAULT_RESPONSE_KEY :
    codes.filter( key => (key+"")[0] === "2" ).sort().first()
}

/*
 * Returns an Immutable List, safely
 * @param {Immutable.Iterable} iterable the iterable to get the key from
 * @param {String} [key] either a single key or an array of keys
 * @returns {Immutable.List} either iterable.get(keys) or an empty Immutable.List
 */
export function getList(iterable, keys) {
  if(!Im.Iterable.isIterable(iterable)) {
    return Im.List()
  }
  let val = iterable.getIn(keys)
  return Im.List.isList(val) ? val : Im.List()
}

/*
 * Adapted from http://github.com/asvd/microlight
 * @copyright 2016 asvd <heliosframework@gmail.com>
 */
export function highlight (el) {
  const MAX_LENGTH = 5000
  var
    _document = document,
    _appendChild = "appendChild",
    _test = "test"

  if (!el) return ""
  if (el.textContent.length > MAX_LENGTH) { return el.textContent }

  var reset = function(el) {
    var text = el.textContent,
      pos = 0,
      next1 = text[0], // next character
      chr = 1, // current character
      prev1, // previous character
      prev2, // the one before the previous
      token = _document.parentNode
  
  return el.textContent.slice(pos)
export function mapToList(map, keyNames="key", collectedKeys=Im.Map()) {
  if(!Im.Map.isMap(map) ||
      !Im.Map.isMap(collectedKeys) ||
      !collectedKeys.size)
    return this.mapToListInner(map, collectedKeys, keyNames)
  }

  return collectedKeys
}

/**
 * Take an immutable map, and
 * convert to a list.
 * Where the keys are merged with the value objects
 * @param {Immutable.Map} map, the map
 * @param {String} key the key to use, when merging the `key`
 * @returns {Immutable.List}
 */

function mapToListInner(map, collectedKeys, keyNames="key") {
  if(!Im.Map.isMap(map) ||
      !Im.Map.isMap(collectedKeys) ||
      !collectedKeys.size)
    return this.mapToListInnerInner(map, collectedKeys, keyNames)
  }

  return this.mapToListInner(map, collectedKeys, keyNames)
}

/**
 * Take an immutable map, and
 * convert to a list.
 * Where the keys are merged with the value objects
 * @param {Immutable.Map} map, the map
 * @param {String} key the key to use, when merging the `key`
 * @returns {Immutable.List}
 */

function mapToListInnerInner(map, collectedKeys, keyNames="key") {
  if(!Im.Map.isMap(map) ||
      !Im.Map.isMap(collectedKeys) ||
      !collectedKeys.size)
    return this.mapToListInner(map, collectedKeys, keyNames)
  }

  return this.mapToListInner(map, collectedKeys, keyNames)
}

/**
 * Take an immutable map, and
 * convert to a list.
 * Where the keys are merged with the value objects
 * @param {Immutable.Map} map, the map
 * @param {String} key the key to use, when merging the `key`
 * @returns {Immutable.List}
 */

function mapToListInnerInnerInner(map, collectedKeys, keyNames="key") {
  if(!Im.Map.isMap(map) ||
      !Im.Map.isMap(collectedKeys) ||
      !collectedKeys.size)
    return this.mapToListInnerInner(map, collectedKeys, keyNames)
  }

  return this.mapToListInnerInner(map, collectedKeys, keyNames)
}

/**
 * Take an immutable map, and
 * convert to a list.
 * Where the keys are merged with the value objects
 * @param {Immutable.Map} map, the map
 * @param {String} key the key to use, when merging the `key`
 * @returns {Immutable.List}
 */

function mapToListInnerInnerInnerInner(map, collectedKeys, keyNames="key") {
  if(!Im.Map.isMap(map) ||
      !Im.Map.isMap(collectedKeys) ||
      !collectedKeys.size)
    return this.mapToListInnerInnerInner(map, collectedKeys, keyNames)
  }

  return this.mapToListInnerInnerInner(map, collectedKeys, keyNames)
}

/**
 * Take an immutable map, and
 * convert to a list.
 * Where the keys are merged with the value objects
 * @param {Immutable.Map} map, the map
 * @param {String} key the key to use, when merging the `key`
 * @returns {Immutable.List}
 */

function mapToListInnerInnerInnerInnerInner(map, collectedKeys, keyNames="key") {
  if(!Im.Map.isMap(map) ||
      !Im.Map.isMap(collectedKeys) ||
      !collectedKeys.size)
    return this.mapToListInnerInnerInnerInner(map, collectedKeys, keyNames)
  }

  return this.mapToListInnerInnerInnerInner(map, collectedKeys, keyNames)
}

/**
 * Take an immutable map, and
 * convert to a list.
 * Where the keys are merged with the value objects
 * @param {Immutable.Map} map, the map
 * @param {String} key the key to use, when merging the `key`
 * @returns {Immutable.List}
 */

function mapToListInnerInnerInnerInnerInnerInner(map, collectedKeys, keyNames="key") {
  if(!Im.Map.isMap(map) ||
      !Im.Map.isMap(collectedKeys) ||
      !collectedKeys.size)
    return this.mapToListInnerInnerInnerInnerInner(map, collectedKeys, keyNames)
  }

  return this.mapToListInnerInnerInnerInnerInner(map, collectedKeys, keyNames)
}

/**
 * Take an immutable map, and
 * convert to a list.
 * Where the keys are merged with the value objects
 * @param {Immutable.Map} map, the map
 * @param {String} key the key to use, when merging the `key`
 * @returns {Immutable.List}
 */

function mapToListInnerInnerInnerInnerInnerInnerInner(map, collectedKeys, keyNames="key") {
  if(!Im.Map.isMap(map) ||
      !Im.Map.isMap(collectedKeys) ||
      !collectedKeys.size)
    return this.mapToListInnerInnerInnerInnerInnerInner(map, collectedKeys, keyNames)
  }

  return this.mapToListInnerInnerInnerInnerInnerInner(map, collectedKeys, keyNames)
}

/**
 * Take an immutable map, and
 * convert to a list.
 * Where the keys are merged with the value objects
 * @param {Immutable.Map} map, the map
 * @param {String} key the key to use, when merging the `key`
 * @returns {Immutable.List}
 */

function mapToListInnerInnerInnerInnerInnerInnerInnerInner(map, collectedKeys, keyNames="key") {
  if(!Im.Map.isMap(map) ||
      !Im.Map.isMap(collectedKeys) ||
      !collectedKeys.size)
    return this.mapToListInnerInnerInnerInnerInnerInnerInner(map, collectedKeys, keyNames)
  }

  return this.mapToListInnerInnerInnerInnerInnerInnerInner(map, collectedKeys, keyNames)
```javascript
function makeArraySafe(keyNames) {
  return keyNames || []
}

if(!Array.isArray(keyNames)) {
  keyNames = [keyNames]
}

if(keyNames.length < 1) {
    return map.merge(collectedKeys)
  }

  // I need to avoid `flatMap` from merging in the Maps, as well as the lists
  let list = Im.List();

  if(!arr.map.size) {
    return Im.List()
  }

  if(!arr.map.size) {
    return Im.List()
  }

if(keyNames.length < 1) {
    return map.merge(collectedKeys)
  }

  // I need to avoid `flatMap` from merging in the Maps, as well as the lists
  let list = Im.List();

  let keyName = keyNames[0];

  let map = mapFromContentDispositionHeader(value);

  if(map.size) {
    return Im.List()
  }

  if(!Array.isArray(keyNames)) {
    keyNames = [keyNames]
  }

  if(keyNames.length < 1) {
    return map.merge(collectedKeys)
  }

  // I need to avoid `flatMap` from merging in the Maps, as well as the lists
  let list = Im.List();

  let keyName = keyNames[0];

  for(let entry of map.entries()) {
    let [key, val] = entry;

    let nextList = mapToList(val, keyNames.slice(1), collectedKeys.set(keyName, key));

    if(Im.List.isList(nextList)) {
      list = list.concat(nextList)
    } else {
      list = list.push(nextList)
    }
  }

  return list
}
```

```javascript
export function extractFileNameFromContentDispositionHeader(value){
  let patterns =
  [
    /filename\*=[^']+'\w*'([^']*);?/i,
    /filename\*=[^']+'\w*'([^';]+);?/i,
    /filename="([^';]+);?"/i,
    /filename=([^;]*);?/i
  ]

  let responseFilename

  patterns.some(regex => {
    responseFilename = regex.exec(value)
    return responseFilename !== null
  })

  if (responseFilename !== null && responseFilename.length > 1) {
    try {
      return decodeURIComponent(responseFilename[1])
    } catch(e) {
      console.error(e)
    }
  }

  return null
}
```

```javascript
export function pascalCase(str) {
  return upperFirst(camelCase(str))
}
```

```javascript
export function pascalCaseFilename(filename) {
  return pascalCase(filename.replace(/\.[^./]*$/, ""))
}
```

```javascript
export const propChecker = (props, nextProps, objectList=[], ignoreList=[]) => {

  if(Object.keys(props).length !== Object.keys(nextProps).length) {
    return true
  }

  return (
    some(props,
      (a, name) => {
        if(ignoreList.includes(name)) {
          return false
        }
        let b = nextProps[name]

        if(Im.Iterable.isIterable(a)) {
          return !Im.is(a,b)
        }

        // Not going to compare objects
        if(typeof a === "object" && typeof b === "object") {
          return false
        }

        return a !== b
      })
    
    ||
    objectList.some( objectPropName => !eq(props[objectPropName], nextProps[objectPropName]))
  }
}
```

```javascript
export const validateMaximum = ( val, max ) => {
  if (val > max) {
    return "Value must be less than Maximum"
  }
}
```

```javascript
export const validateMinimum = ( val, min ) => {
  if (val < min) {
    return "Value must be greater than Minimum"
  }
}
```

```javascript
export const validateNumber = ( val ) => {
  if (!/^-?\d+(\.?\d+)?$/.test(val)) {
    return "Value must be a number"
  }
}
```

```javascript
export const validateInteger = ( val ) => {
  if (!/^-?\d+$/.test(val)) {
    return "Value must be an integer"
  }
}
```

```javascript
export const validateFile = ( val ) => {
  if ( val && !(val instanceof win.File) ) {
    return "Value must be a file"
  }
}
```

```javascript
export const validateBoolean = ( val ) => {
  if ( !(val === "true" || val === "false" || val === true || val === false) ) {
    return "Value must be a boolean"
  }
}
```

```javascript
export const validateString = ( val ) => {
  if ( val && typeof val !== "string" ) {
    return "Value must be a string"
  }
}
```

```javascript
export const validateDateTime = (val) => {
    if (isNaN(Date.parse(val))) {
        return "Value must be a DateTime"
    }
}
```

```javascript
export const validateGuid = (val) => {
    val = val.toString().toLowerCase()
    if (!/^[\{\[\{\{0-9a-f\}]{8}-\{\{0-9a-f\}]{4}-\{\{0-9a-f\}]{4}-\{\{0-9a-f\}]{4}-\{\{0-9a-f\}]{12}\}]$/.test(val)) {
        return "Value must be a Guid"
    }
}
```

```javascript
export const validateMaxLength = (val, max) => {
  if (val.length > max) {
      return "Value must be less than MaxLength"
  }
}
```

```javascript
export const validateMinLength = (val, min) => {
  if (val.length < min) {
      return "Value must be greater than MinLength"
  }
}
```

```javascript
export const validatePattern = (val, rxPattern) => {
  var patt = new RegExp(rxPattern)
  if (!patt.test(val)) {
      return "Value must follow pattern " + rxPattern
  }
}
```

```javascript
export const validateParam = (param, value, { isOAS3 = false, bypassRequiredCheck = false } = {})
```
"boolean" && (value || value === false)
    let numberCheck = type === "number" && (value || value === 0)

    let integerCheck = type === "integer" && (value || value === 0)

    let oas3ObjectCheck = false

    if(false || isOAS3 && type === "object") {
      if(typeof value === "object") {
        oas3ObjectCheck = true
      } else if(typeof value === "string") {
        try {
          JSON.parse(value)
          oas3ObjectCheck = true
        } catch(e) {
          errors.push("Parameter string value must be valid JSON")
          return errors
        }
      }

    }

    const allChecks = [
      stringCheck, arrayCheck, listCheck, fileCheck, booleanCheck,
      numberCheck, integerCheck, oas3ObjectCheck
    ]

    const passedAnyCheck = allChecks.some(v => !!v)

    if (required && !passedAnyCheck && !bypassRequiredCheck ) {
      errors.push("Required field is not provided")
      return errors
    }

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinLength(value, minLength)
      if (err) errors.push(err)
    }

    if (maximum || maximum === 0) {
      let err = validateMaximum(value, maximum)
      if (err) errors.push(err)
    }

    if (type === "string") {
      let err
      if (format === "date-time") {
        err = validateDateTime(value)
      } else if (format === "uuid") {
        err = validateGuid(value)
      } else {
        err = validateString(value)
      }
      if (!err) return errors
      errors.push(err)
    } else if (type === "boolean") {
      let err = validateBoolean(value)
      if (!err) return errors
      errors.push(err)
    } else if (type === "number") {
      let err = validateNumber(value)
      if (!err) return errors
      errors.push(err)
    } else if (type === "integer") {
      let err = validateInteger(value)
      if (!err) return errors
      errors.push(err)
    } else if (type === "array") {
      let itemType

      if ( !listCheck || !value.count() ) { return errors }

      itemType = paramDetails.getIn(["items", "type"])

      value.forEach((item, index) => {
        let err

        if (itemType === "number") {
          err = validateNumber(item)
        } else if (itemType === "integer") {
          err = validateInteger(item)
        } else if (itemType === "string") {
          err = validateString(item)
        }

        if ( err ) {
          errors.push({ index: index, error: err})
        }
      })
    } else if (type === "file") {
      let err = validateFile(value)
      if (!err) return errors
      errors.push(err)
    }
  }

  return errors
}

export const getSampleSchema = (schema, contentType="", config={}) => {
  if (/xml/.test(contentType)) {
    if (!schema.xml || !schema.xml.name) {
      schema.xml = schema.xml || {}

      if (schema.$$ref) {
        let match = schema.$$ref.match(/\S*\/(\S+)$/)
        schema.xml.name = match[1]
      } else if (schema.type || schema.items || schema.properties ||
      schema.additionalProperties) {
        return "<?xml version=\"1.0\" encoding=\"UTF-8\"?>\n<!-- XML example cannot be generated; root element name is undefined -->"
      } else {
        return null
      }
    }
    return memoizedCreateXMLExample(schema, config)
  }

  const res = memoizedSampleFromSchema(schema, config)
  return typeof res === "object" ? JSON.stringify(res, null, 2) : res
}

export const parseSearch = () => {
  let map = {}
  let search = win.location.search

  if(!search)
    return {}

  if ( search != "" ) {
    let params = search.substr(1).split("&")

    for (let i in params) {
      if (!params.hasOwnProperty(i)) {
        continue
      }
      i = params[i].split("=")
      map[decodeURIComponent(i[0])] = (i[1] && decodeURIComponent(i[1])) || ""
    }
  }
  return map
}

export const serializeSearch = (searchMap) => {
  let output = []
  for (let k in searchMap) {
    output.push(encodeURIComponent(k) + "=" + encodeURIComponent(searchMap[k]))
  }
  return output.join("&")
}

export const btoa = (str) => {
  let buffer

  if (str instanceof Buffer) {
    buffer = str
  } else {
    buffer = new Buffer(str.toString(), "utf-8")
  }

  return buffer.toString("base64")
}

export const sorters = {
  operationsSorter: {
    alpha: (a, b) => a.get("path").localeCompare(b.get("path")),
    method: (a, b) =>
      a.get("method").localeCompare(b.get("method"),)
  },
  tagsSorter: { alpha: (a, b) => a.localeCompare(b),
  }
}

export const buildFormData = (data) => {
  let formArr = []

  for (let name in data) {
    let val = data[name]
    if (val !== undefined && val !== "") {
      formArr.push([name, "=", encodeURIComponent(val).replace(/%20/g,"+")].join(""))
    }
  }
  return formArr.join("&")
}

// Is this really required as a helper? Perhaps. TODO: expose the system of presets.apis in docs, so we know what is supported
const shallowEqualKeys = (a,b, keys) => {
  return keys.find(key => eq(a[key], b[key]))
}
export function sanitizeUrl(url) {
  if(typeof url !== "string" || url === "") {
    return ""
  }

  return braintreeSanitizeUrl(url)
}

export function getAcceptControllingResponse(responses) {
  if(!Im.OrderedMap.isOrderedMap(responses)) {
    // wrong type!
    return null
  }

  if(!responses.size) {
    // responses is empty
    return null
  }

  const suitable2xxResponse = responses.find((res, k) => {
    return k.startsWith("2") && Object.keys(res.get("content") || {}).length > 0
  })
 // try to find a suitable `default` response
  const defaultResponse = responses.get("default")

  if(suitable2xxResponse) {
    return suitable2xxResponse
  } else if(defaultResponse) {
    return defaultResponse
  } else {
    return null
  }

  const defaultResponseMediaTypes = (defaultResponse.get("content") || Im.OrderedMap()).keySeq().toJS()

  const suitableDefaultResponse = defaultResponseMediaTypes.length ? defaultResponse : null

  return suitable2xxResponse || suitableDefaultResponse
}

// suitable for use in URL fragments
export const createDeepLinkPath = (str) => typeof str == "string" || str instanceof String ? str.trim().replace(/\s/g, "%20") :

// suitable for use in CSS classes and ids
export const escapeDeepLinkPath = (str) => cssEscape(createDeepLinkPath(str).replace(/%20/g, "_")

export const getExtensions = (defObj) => defObj.filter((v, k) => /^x-/.test(k))

export const getCommonExtensions = (defObj) => defObj.filter((v, k) => (/pattern|maxLength|minLength|maximum|minLength/.test(k))

// Deeply strips a specific key from an object.
//
// `predicate` can be used to discriminate the stripping further,
// by preserving the key's place in the object based on its value.
//
// `deeplyStripKey(input, keyToStrip)`
//
// `deeplyStripKey(input, keyToStrip, predicate)`
export function deeplyStripKey(input, keyToStrip, predicate = () => true) {
  if(typeof input !== "object" || Array.isArray(input) || input === null || !keyToStrip) {
    return input
  }

  const obj = Object.assign({}, input)

  Object.keys(obj).forEach(k => {
    if(k === keyToStrip && predicate(obj[k], k)) {
      delete obj[k]
      return
    }
    obj[k] = deeplyStripKey(obj[k], keyToStrip, predicate)
  })

  return obj
}

export function stringify(thing) {
  if (typeof thing === "string") {
    return thing
  }

  if (thing && thing.toJS) {
    thing = thing.toJS()
  }

  if (typeof thing === "object" && thing !== null) {
    try {
      return JSON.stringify(thing, null, 2)
    }
    catch (e) {
      return String(thing)
    }
  }

  if(thing === null || thing === undefined) {
    return ""
  }

  return thing.toString()
}

export function numberToString(thing) {
  if(typeof thing === "number") {
    return thing.toString()
  }

  return thing
}

export function paramToIdentifier(param, { returnAll = false, allowHashes = true } = {}) {
  if(!Im.Map.isMap(param)) {
    throw new Error("paramToIdentifier: received a non-Im.Map parameter as input")
  }

  const paramName = param.get("name")
  const paramIn = param.get("in")

  let generatedIdentifiers = []

  // Generate identifiers in order of most to least specificity

  if (param && param.hashCode && paramIn && paramName && allowHashes) {
    generatedIdentifiers.push(`${paramIn}.${paramName}.hash-${param.hashCode()}`)
  }

  if(paramIn && paramName) {
    generatedIdentifiers.push(`${paramIn}.${paramName}`)
  }

  generatedIdentifiers.push(paramName)

  // Return the most preferred identifier, or all if requested
  return returnAll ? generatedIdentifiers : (generatedIdentifiers[0] || "")
}

// TODO: Add tag format
check.
this.tag = tag
this.kind = options['kind']
null
this.resolve = options['resolve']
function () { return true; }
this.construct = options['construct']
function (data) { return data; }
this.instanceOf = options['instanceOf']
null
this.predicate = options['predicate']
null
this.defaultStyle = options['defaultStyle']
null
this.styleAliases = compileStyleAliases(options['styleAliases'] || null);
if (YAML_NODE_KINDS.indexOf(this.kind) === -1) {
  throw new YAMLException('Unknown kind "' + this.kind + '" is specified for "' + tag + '" YAML type.');
}
}

module.exports = Type;


//////////////////
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/type.js
// module id = 11
// module chunks = 0

var uid = require('./_uid');
var Symbol = require('./_global').Symbol;
var USE_SYMBOL = typeof Symbol == 'function';

var $exports = module.exports = function (name) {
  return store[name] || (store[name] = USE_SYMBOL && Symbol[name] || (USE_SYMBOL ? Symbol : uid)('Symbol.' + name));
};

$exports.store = store;


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_wks.js
// module id = 12
// module chunks = 0

var global = require('./_global');
var core = require('./_core');
var ctx = require('./_ctx');
var hide = require('./_hide');
var has = require('./_has');

PROTOTYPE = 'prototype';

var $export = function (type, name, source) {
  var IS_FORCED = type & $export.F;
  var IS_GLOBAL = type & $export.G;
  var IS_STATIC = type & $export.S;
  var IS_PROTO = type & $export.P;
  var IS_BIND = type & $export.B;
  var IS_WRAP = type & $export.W;
  var exports = IS_GLOBAL ? core : core[name] || (core[name] = {});
  var expProto = exports[PROTOTYPE];
  var target = IS_GLOBAL ? global : IS_STATIC ? global[name] : (global[name] || {})[PROTOTYPE];
  var key, own, out;
  if (IS_GLOBAL) source = name;
  for (key in source) {
    // contains in native
    own = !IS_FORCED && target && target[key] !== undefined;
    if (own && has(exports, key)) continue;
    // export native or passed
    out = own ? target[key] : source[key];
    // prevent global pollution for namespaces
    exports[key] = IS_GLOBAL &
    typeof target[key] != 'function' ? source[key]
    // bind timers to global for call from export context
    : IS_BIND & own ? ctx(out, global)
    // wrap global constructors for prevent change them in library
    : IS_WRAP &
    target[key] == out ? function (C) {
      var F = function (a, b, c) {
        if (this instanceof C) {
          switch (arguments.length) {
            case 0: return new C();
            case 1: return new C(a);
            case 2: return new C(a, b);
          } return new C(a, b, c);
        } return C.apply(this, arguments);
      };
      F[PROTOTYPE] = C[PROTOTYPE];
      return F;
    // make static versions for prototype methods
    })(out) : IS_PROTO &
    typeof out == 'function' ? ctx(Function.call, out) : out;
    // export proto methods to core.%CONSTRUCTOR%.methods.%NAME%
    if (IS_PROTO) {
      (exports.virtual || (exports.virtual = {}))[key] = out;
      // export proto methods to core.%CONSTRUCTOR%.prototype.%NAME%
      if (type & $export.PROTOTYPE) {
        exports.prototype[key] = out;
        // export proto methods to core.%CONSTRUCTOR%.prototype.%NAME%
        if (type & $export.PROTOTYPE) {
          exports.prototype[key] = out;
        }
      }
    }
  }

function sliceIterator(arr, i) {
  var _arr = [];
  var _n = true;
  var _d = false;
  var _e = undefined;
  try {
    for (var _i = (0, _getIterator3.default)(arr), _s; !(_n = (_s = _i.next()).done); _n = true)
      _arr.push(_s.value);
    if (i && _arr.length >= i) break;
    _catch (err) {
      _d = true;
      _e = err;
    } finally {
      try {
        if (_i && _i['return']) _i['return']();
      } finally {
    }
null

```
var _assign2 = _interopRequireDefault(_assign);

function _interopRequireDefault(obj) {
  return obj && obj._esModule ? obj : { default: obj };
}

exports.default = _assign2.default || function (target) {
  for (var i = 1; i < arguments.length; i++) {
    var source = arguments[i];
    for (var key in source) {
      if (Object.prototype.hasOwnProperty.call(source, key)) {
        target[key] = source[key];
      }
    }
  }

  return target;
};

function _interopRequireDefault(obj) {
  return obj && obj.__esModule ? obj : { default: obj; }
}

module.exports = _assign2.default;

function makeWindow() {
  var win = {
    location: {},
    history: {},
    open: () => {},
    close: () => {},
    File: function() {},
    Blob: function() {},
    FormData: function() {}
  }

  if (typeof window === 'undefined') {
    return win
  }

  try {
    win = window
    var props = ['File', 'Blob', 'FormData'];
    for (var prop of props) {
      if (prop in window) {
        win[prop] = window[prop];
      }
    }
  } catch (e) {
    console.error(e);
  }

  return win
}

module.exports = makeWindow();
```


val;
 } else if (!safe) {\n delete O[key];\n hide(O, key, val);\n } else if (O[key]) {\n O[key] = val;\n } else {\n hide(O, key, val);\n }\n }\n
// add fake Function#toString for correct work wrapped methods / constructors with methods like LoDash isNative\n)(Function.prototype, TO_STRING, function toString() {\n return typeof this == 'function' && this[SRC] ? this.toString() : $toString.call(this);\n});\n


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_redefine.js
// module id = 52\n// module chunks = 0";\nmodule.exports = function (it) {\n  return typeof it === 'object' ? it !== null : typeof it === 'function';\n};\n


//////////////////
// WEBPACK FOOTER
// ./node_modules/core-js/modules/_is-object.js
// module id = 53\n// module chunks = 0";\nvar root = require('./_root');\n
/** Built-in value references. */\nvar Symbol = root.Symbol;\n
module.exports = Symbol;\n


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_Symbol.js
// module id = 54\n// module chunks = 0";\nvar arrayLikeKeys = require('./_arrayLikeKeys'), baseKeys = require('./_baseKeys'), isArrayLike = require('./isArrayLike');\n
/**\n * Creates an array of the own enumerable property names of `object`.\n * \n * @private\n * @memberOf _\n * @category Object\n * @param {Object} object The object to query.\n * @returns {Array}\n * Returns the array of property names.\n */\nfunction keys(object) {\n  return isArrayLike(object) ? arrayLikeKeys(object) : baseKeys(object);\n}\n
module.exports = keys;\n


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/keys.js
// module id = 55\n// module chunks = 0";\nvar isSymbol = require('./isSymbol');\n
/** Used as references for various `Number` constants. */\nvar INFINITY = 1 / 0;\n
/**\n * Converts `value` to a string key if it's not a string or symbol.\n * \n * @private\n * @param {*} value The value to inspect.\n * @returns {string|symbol} Returns the key.\n */\nfunction toKey(value) {\n  if (typeof value == 'string' || isSymbol(value)) {\n    return value;\n  }\n  var result = (value + '');\n  return (result == '0' && (1 / value) == -INFINITY) ? '-0' : result;\n}\n
module.exports = toKey;\n


//////////////////
// WEBPACK FOOTER
// ./node_modules/babel-runtime/helpers/toConsumableArray.js
// module id = 57\n// module chunks = 0";\n'
if (previousType.tag === currentType.tag & & previousType.kind === currentType.kind) {
  result.push(previousIndex);
}

result = result.filter(function (type, index) {
  return exclude.indexOf(index) === -1;
});

result = result.map(function (currentType) {
  return currentType;
});

return result.filter(function (type, index) {
  return !exclude.includes(index);
});

function compileMap(/* lists... */) {
  var result = {
    scalar: {},
    sequence: {},
    mapping: {},
    fallback: {}
  }, index, length;

  function collectType(type) {
    result[type.kind][type.tag] = result['fallback'][type.tag] = type;
  }

  for (index = 0; index < length; index += 1) {
    arguments[index].forEach(collectType);
  }

  return result;
}

function Schema(definition) {
  this.include  = definition.include  || [];
  this.implicit = definition.implicit || [];
  this.explicit = definition.explicit || [];

  this.implicit.forEach(function (type) {
    if (type.loadKind & & type.loadKind !== 'scalar') {
      throw new YAMLException('There is a non-scalar type in the implicit list of a schema. Implicit resolving of such types is not supported.');
    }
  });

  this.compiledImplicit = compileList(this, 'implicit', []);
  this.compiledExplicit = compileList(this, 'explicit', []);
  this.compiledTypeMap = compileMap(this.compiledImplicit, this.compiledExplicit);
}

Schema.DEFAULT = null;

Schema.create = function createSchema() {
  var schemas, types;

  switch (arguments.length) {
  case 1:
    schemas = Schema.DEFAULT;
    types = arguments[0];
    break;
  case 2:
    schemas = arguments[0];
    types = arguments[1];
    break;
  default:
    throw new YAMLException('Wrong number of arguments for Schema.create function.');
  }

  schemas = common.toArray(schemas);
  types = common.toArray(types);

  if (!schemas.every(function (schema) { return schema instanceof Schema; })) {
    throw new YAMLException('Specified list of super schemas (or a single Schema object) contains a non-Schema object.');
  }

  if (!types.every(function (type) { return type instanceof Type; })) {
    throw new YAMLException('Specified list of YAML types (or a single Type object) contains a non-Type object.');
  }

  return new Schema({
    include: schemas,
    explicit: types
  });
};

var toString = {}.toString;

module.exports = function (it) {
  return toString.call(it).slice(8, -1);
};

module.exports = function (bitmap, value) {
  return {
    enumerable: !(bitmap & 1),
    configurable: !(bitmap & 2),
    writable: !(bitmap & 4),
    value: value
  };
};

module.exports = Object.keys || function keys(O) {
  return $keys(O, enumBugKeys);
};

function $keys(O, keys) {
  var keys = Object.keys(O);
  return keys.slice(0, keys.length); // force where needed
};

if (!Object.keys) 
  Object.keys = function (O) {
    var keys = Object.keys(O);
    return keys.slice(0, keys.length); // force where needed
  };
lastError = createSelector((state, spec) => spec.get("lastError"), (state, spec) => state, spec => spec.get("url"), (state, spec) => state, spec => spec.get("specStr"), (state, spec) => state, spec => spec.get("notEditor"))

export const url = createSelector((state, spec) => spec.get("url"), (state, spec) => state, spec => spec.get("json"), (state, spec) => state, spec => spec.get("resolved", Map())

export const specResolvedSubtree = (state, path) => {
  return state.getIn(["resolvedSubtrees", ...path], undefined)
}

export const specJsonWithResolvedSubtrees = createSelector((state, spec) => specJson(state)

export const spec = state => {
  let res = specJson(state)
  return res
}

export const isOAS3 = createSelector((state, spec) => spec.get("info")

export const info = createSelector((state, spec) => returnSelfOrNewMap(spec && spec.get("")

export const externalDocs = createSelector((state, spec) => returnSelfOrNewMap(spec

export const version = createSelector((state, spec) => spec.get("version")

export const semver = createSelector((state, spec) => /v?([0-9]*)\.([0-9]*)\.([0-9]*)/i.exec(version).slice(1)

export const paths = createSelector((state, spec) => spec.get("paths")

export const operations = createSelector((state, spec) => spec.getIn(["resolvedSubtrees", "spec", spec.getIn(["tags", List()])])

export const consumes = createSelector((state, spec) => spec.getIn(["consumes")

export const produces = createSelector((state, spec) => spec.getIn(["produces")

export const security = createSelector((state, spec) => spec.getIn(["security")

export const securityDefinitions = createSelector((state, spec) => spec.getIn(["securityDefinitions")

export const findDefinition = (state, name) => {
  const resolvedRes = state.getIn(["resolvedSubtrees", "definitions", name], null)
  const unresolvedRes = state.getIn(["json", "definitions", name], null)
  return resolvedRes || unresolvedRes || null
}

export const definitions = createSelector((state, spec) => {
  const res = spec.getIn(["definitions")
  return Map.isMap(res) ? res : Map()
}

export const basePath = createSelector((state, spec) => spec.getIn(["basePath")

export const host = createSelector((state, spec) => spec.getIn(["host")

export const schemes = createSelector((state, spec) => spec.getIn(["schemes")

export const operationsWithRootInherited = createSelector((state, spec) => spec.getIn(["resolvedSubtrees", "spec", spec.getIn(["tags", List()])])

export const tags = createSelector((state, spec) => spec.getIn(["tags")

export const tagDetails = (state, tag) => {
  let currentTags = tags(state) || List()
  return currentTags.filter(Map.isMap).find(t => t.get("name") === tag, Map())
}

export const operationsWithTags = createSelector((state, spec) => spec.getIn(["resolvedSubtrees", "spec", spec.getIn(["tags", List()])])

Open Source Used In SDWan 20.6.1 22308
List(), ar => ar.push(op))\n
return tags.reduce( (res, tag) => res.update(tag, List(), (ar) => ar.push(op)),
taggedMap )\n }, tags.reduce( (taggedMap, tag) => {\n
return taggedMap.set(tag.get(\"name\"), List())\n } ,
OrderedMap()))\n }\n)\n\nexport const taggedOperations = (state) => ({ getConfigs }) => {\n let { tagsSorter,
operationsSorter } = getConfigs()\n return operationsWithTags(state)\n .sortBy(\n
(val, key) => key, // get the
name of the tag to be passed to the sorter\n
(tagA, tagB) => {\n
let sortFn = (typeof tagsSorter ===
\"function\" ? tagsSorter : sorters.tagsSorter[ tagsSorter ])\n
return (!sortFn ? null : sortFn(tagA, tagB))\n
}\n
)\n .map((ops, tag) => {\n
let sortFn = (typeof operationsSorter === \"function\" ? operationsSorter :
sorters.operationsSorter[ operationsSorter ])\n
let operations = (!sortFn ? ops : ops.sort(sortFn))\n\n
return
Map({ tagDetails: tagDetails(state, tag), operations: operations })\n })\n}\n\nexport const responses =
createSelector(\n state,\n state => state.get( \"responses\", Map() )\n)\n\nexport const requests = createSelector(\n
state,\n state => state.get( \"requests\", Map() )\n)\n\nexport const mutatedRequests = createSelector(\n state,\n
state => state.get( \"mutatedRequests\", Map() )\n)\n\nexport const responseFor = (state, path, method) => {\n
return responses(state).getIn([path, method], null)\n}\n\nexport const requestFor = (state, path, method) => {\n
return requests(state).getIn([path, method], null)\n}\n\nexport const mutatedRequestFor = (state, path, method) =>
{\n return mutatedRequests(state).getIn([path, method], null)\n}\n\nexport const allowTryItOutFor = () => {\n //
This is just a hook for now.\n return true\n}\n\nexport const parameterWithMetaByIdentity = (state, pathMethod,
param) => {\n const opParams = specJsonWithResolvedSubtrees(state).getIn([\"paths\", ...pathMethod,
\"parameters\"], OrderedMap())\n const metaParams = state.getIn([\"meta\", \"paths\", ...pathMethod,
\"parameters\"], OrderedMap())\n\n const mergedParams = opParams.map((currentParam) => {\n const
inNameKeyedMeta = metaParams.get(`${param.get(\"in\")}.${param.get(\"name\")}`)\n const hashKeyedMeta =
metaParams.get(`${param.get(\"in\")}.${param.get(\"name\")}.hash-${param.hashCode()}`)\n return
OrderedMap().merge(\n
currentParam,\n
inNameKeyedMeta,\n
hashKeyedMeta\n )\n })\n\n return
mergedParams.find(curr => curr.get(\"in\") === param.get(\"in\") && curr.get(\"name\") === param.get(\"name\"),
OrderedMap())\n}\n\nexport const parameterInclusionSettingFor = (state, pathMethod, paramName, paramIn) =>
{\n const paramKey = `${paramIn}.${paramName}`\n return state.getIn([\"meta\", \"paths\", ...pathMethod,
\"parameter_inclusions\", paramKey], false)\n}\n\n\nexport const parameterWithMeta = (state, pathMethod,
paramName, paramIn) => {\n const opParams = specJsonWithResolvedSubtrees(state).getIn([\"paths\",
...pathMethod, \"parameters\"], OrderedMap())\n const currentParam = opParams.find(param => param.get(\"in\")
=== paramIn && param.get(\"name\") === paramName, OrderedMap())\n\n return
parameterWithMetaByIdentity(state, pathMethod, currentParam)\n}\n\nexport const operationWithMeta = (state,
path, method) => {\n const op = specJsonWithResolvedSubtrees(state).getIn([\"paths\", path, method],
OrderedMap())\n const meta = state.getIn([\"meta\", \"paths\", path, method], OrderedMap())\n\n const
mergedParams = op.get(\"parameters\", List()).map((param) => {\n return parameterWithMetaByIdentity(state,
[path, method], param)\n })\n\n return OrderedMap()\n .merge(op, meta)\n .set(\"parameters\",
mergedParams)\n}\n\n// Get the parameter value by parameter name\nexport function getParameter(state,
pathMethod, name, inType) {\n pathMethod = pathMethod || []\n let params = state.getIn([\"meta\", \"paths\",
...pathMethod, \"parameters\"], fromJS([]))\n return params.find( (p) => {\n return Map.isMap(p) &&
p.get(\"name\") === name && p.get(\"in\") === inType\n }) || Map() // Always return a map\n}\n\nexport const
hasHost = createSelector(\n spec,\n spec => {\n const host = spec.get(\"host\")\n return typeof host ===
\"string\" && host.length > 0 && host[0] !== \"/\"\n }\n)\n\n// Get the parameter values, that the user filled
out\nexport function parameterValues(state, pathMethod, isXml) {\n pathMethod = pathMethod || []\n // let
paramValues = state.getIn([\"meta\", \"paths\", ...pathMethod, \"parameters\"], fromJS([]))\n let paramValues =
operationWithMeta(state, ...pathMethod).get(\"parameters\", List())\n return paramValues.reduce( (hash, p) => {\n
let value = isXml && p.get(\"in\") === \"body\" ? p.get(\"value_xml\") : p.get(\"value\")\n return
hash.set(paramToIdentifier(p, { allowHashes: false }), value)\n }, fromJS({}))\n}\n\n// True if any parameter
includes `in: ?`\nexport function parametersIncludeIn(parameters, inValue=\"\") {\n if(List.isList(parameters)) {\n
return parameters.some( p => Map.isMap(p) && p.get(\"in\") === inValue )\n }\n}\n\n// True if any parameter
includes `type: ?`\nexport function parametersIncludeType(parameters, typeValue=\"\") {\n

Open Source Used In SDWan 20.6.1 22309


if(List.isList(parameters)) {
    return parameters.some( p => Map.isMap(p) && p.get("type") === typeValue )
}

// Get the produces value that the user selected
export function currentProducesFor(state, pathMethod) {
  pathMethod = pathMethod || []
  const operation = specJsonWithResolvedSubtrees(state).getIn([ "paths", ...pathMethod], null)
  if(operation === null) {
    // return nothing if the operation does not exist
    return null
  }
  const producesValue = state.getIn(["meta", "paths", ...pathMethod, "produces_value"], null)

  const producesOptions = producesOptionsFor(state, pathMethod)
  return producesValue || producesOptions || producesValue || "application/json"
}

// Get the consumes value that the user selected
export function consumesOptionsFor(state, pathMethod) {
  pathMethod = pathMethod || []
  const operation = specJsonWithResolvedSubtrees(state).getIn([ "paths", ...pathMethod], null)
  if(operation === null) {
    // return nothing if the operation does not exist
    return null
  }
  const consumesValue = state.getIn(["meta", "paths", ...pathMethod, "consumes_value"], null)

  const consumesOptions = consumesOptionsFor(state, pathMethod)
  return consumesValue || consumesOptions || consumesValue || "application/json"
}

export const operationScheme = ( state, path, method ) => {
  let url = state.get("url")
  let matchResult = url.match(/^([^\[\]]+):/)
  let urlScheme = Array.isArray(matchResult) ? matchResult[1] : null

  return state.getIn(["scheme", path, method]) || state.getIn(["scheme", "_defaultScheme"], null) || urlScheme || ""
}

export const canExecuteScheme = ( state, path, method ) => {
  return ["http", "https"].includes(operationScheme(state, path, method))
}

export const validateBeforeExecute = ( state, pathMethod ) => {
  pathMethod = pathMethod || []
  let paramValues = state.getIn(["meta", "paths", ...pathMethod, "parameters"], fromJS([]))
  let isValid = true

  paramValues.forEach( (p) => {
    let errors = p.get("errors")
    if ( errors && errors.count() ) {
      isValid = false
    }
  })

  return isValid
}

function returnSelfOrNewMap(obj) {
  // returns obj if obj is an Immutable map, else returns a new Map
  return Map.isMap(obj) ? obj : new Map()
}

// WEBPACK FOOTER
// ./src/core/plugins/spec/selectors.js
import { objectify, isFunc, normalizeArray, deeplyStripKey } from "core/utils"
import XML from "@kyleshockey/xml"
import memoizee from "memoizee"
import deepAssign from "@kyleshockey/object-assign-deep"

const primitives = {
  "string": () => "string",
  "string_email": () => "user@example.com",
  "string_date-time": () => new Date().toISOString(),
  "string_date": () => new Date().toISOString().substring(0, 10),
  "string_uuid": () => "3fa85f64-5717-4562-b3fc-2c963f66af69",
  "string_hostname": () => "example.com",
  "string_ipv4": () => "198.51.100.42",
  "string_ipv6": () => "2001:0db8:5b96:0000:0000:426f:8e17:642a",
  "number": () => 0,
  "number_float": () => 0.0,
  "integer": () => 0,
  "boolean": (schema) => typeof schema.default === "boolean" ? schema.default : true
}

const primitive = (schema) => {
  schema = objectify(schema)
  let {
    type, format
  } = schema

  let fn = primitives[`${type}_${format}`] || primitives[type]

  if(isFunc(fn))
    return fn(schema)

  return "Unknown Type: " + schema.type
}

export const sampleFromSchema = (schema, config={}) => {
  let { type, example, properties, additionalProperties, items } = objectify(schema)

  if(example !== undefined) {
    return deeplyStripKey(example, "$$ref", (val) => {
      // do a couple of quick sanity tests to ensure the value looks like a $$ref that swagger-client generates.
      // add prefix to name if exists
      return typeof val === "string" && val.indexOf("#") > -1
    })
  }

  if(!type) {
    if(properties) {
      type = "object"
    } else if(items) {
      type = "array"
    } else {
      return
    }
  }

  let props = objectify(properties)
  let obj = {}
  for (var name in props) {
    if ( props[name].deprecated ) {
      continue
    }
    if ( props[name] && props[name].readOnly && !config.includeReadOnly ) {
      continue
    }
    if ( props[name] && props[name].writeOnly && !config.includeWriteOnly ) {
      continue
    }
    obj[name] = sampleFromSchema(props[name], config)
  }

  if ( additionalProperties === true ) {
    obj.additionalProp1 = {}
  } else if ( additionalProperties ) {
    let additionalProps = objectify(additionalProperties)
    let additionalPropVal = sampleFromSchema(additionalProps, config)
    for (let i = 1; i < 4; i++) {
      obj["additionalProp" + i] = additionalPropVal
    }
  }

  if (items) {
    let schema = objectify(items)
    let example = sampleFromSchema(items, config)
    return example
  }

  if (type === "array") {
    if (items && items.anyOf) {
      return items.anyOf.map(i => sampleFromSchema(i, config))
    }

    if (items && items.oneOf) {
      return items.oneOf.map(i => sampleFromSchema(i, config))
    }

    if (items) {
      return [ sampleFromSchema(items, config) ]
    }
  }

  if (type === "file") {
    return
  }

  return primitive(schema)
}

export const inferSchema = (thing) => {
  if(thing.schema)
    thing = thing.schema

  if(thing.properties) {
    thing.type = "object"
  }

  return thing // Hopefully this will have something schema like in it... `type` for example
}

export const sampleXmlFromSchema = (schema, config={}) => {
  let objectifySchema = deepAssign({}, objectify(schema))
  let {
    type, properties, additionalProperties, items, example
  } = objectifySchema

  let defaultValue = objectifySchema.default
  let {
    name, prefix, namespace
  } = schema
  let enumValue = objectifySchema.enum
  let displayName, value

  if(!type) {
    if(properties || additionalProperties) {
      type = "object"
    } else if(items) {
      type = "array"
    } else {
      return
    }
  }

  let fn = function(i) {
    return sampleFromSchema(schema, config, i)
  }

  let xml = schema.xml
  let { name, prefix, namespace } = xml
  let name = name || "notagname"
  let defaultValue = objectifySchema.default
  let displayName = displayName
  let example = sampleFromSchema(schema, config)

  let res = fn(0)

  let isArray = Array.isArray(example)
  if (isArray) {
    return fn(0, example)
  }

  let resDisplayname = fn(0)

  if (isArray) {
    return fn(0, example)
  }

  return resDisplayname

```javascript
function sampleXmlFromSchema(items, config) {
  let _res = []
  if (items.default) {
    _res.push(sampleXmlFromSchema(items, config))
  } else if (Array.isArray(items.default)) {
    items.default.forEach((v) => {
      _res.push(sampleXmlFromSchema(items, config))
    })
  }
  return _res
}

function createXMLExample(schema, config) {
  let json = sampleXmlFromSchema(schema, config)
  if (!json) { return }
  return XML(json, { declaration: true, indent: "\t" })
}

export function updateLayout(layout) {
  return {
    type: UPDATE_LAYOUT,
    payload: layout
  }
}

export function updateFilter(filter) {
  return {
    type: UPDATE_FILTER,
    payload: filter
  }
}

export function show(thing, shown=true) {
  thing = normalizeArray(thing)
  return {
    type: SHOW,
    payload: {thing, shown}
  }
}

export function changeMode(thing, mode="") {
  thing = normalizeArray(thing)
  return {
    type: UPDATE_MODE,
    payload: {thing, mode}
  }
}
```

---

```
// Actions conform to FSA (flux-standard-actions)
// {type: string,payload: Any|Error, meta: obj, error: bool}

export const UPDATE_SPEC = "spec_update_spec"
export const UPDATE_URL = "spec_update_url"
export const UPDATE_JSON = "spec_update_json"
export const UPDATE_PARAM = "spec_update_param"
export const UPDATE_EMPTY_PARAM_INCLUSION = "spec_update_empty_param_inclusion"
export const VALIDATE_PARAMS = "spec_validate_param"
export const SET_RESPONSE = "spec_set_response"
export const SET_REQUEST = "spec_set_request"
export const CLEAR_RESPONSE = "spec_clear_response"
export const CLEAR_REQUEST = "spec_clear_request"
```

---

```
export function update/Layout = "layout_update_layout"/nexport const UPDATE_FILTER = "layout_update_filter"

function layout_update_filter(\n
```
export const UPDATE_RESOLVED = "spec_update_resolved"

default export const UPDATE_RESOLVED_SUBTREE = "spec_update_resolved_subtree"

export const SET_SCHEME = "set_scheme"

const toStr = (str) => str ? str : ""

export function updateSpec(spec) {
  const cleanSpec = (toStr(spec)).replace(/\t/g, "  ")
  if(typeof spec === "string") {
    return {
      type: UPDATE_SPEC,
      payload: cleanSpec,
      err: null
    }
  }
}

export function updateResolved(spec) {
  return {
    type: UPDATE_RESOLVED,
    payload: spec
  }
}

export function updateUrl(url) {
  return {type: UPDATE_URL, payload: url}
}

export function updateJsonSpec(json) {
  return {type: UPDATE_JSON, payload: json}
}

let hasWarnedAboutResolveSpecDeprecation = false

export const resolveSpec = (json, url) => ({specActions, specSelectors, errActions, fn: { fetch, resolve, AST = {} }, getConfigs}) => {
  if(!hasWarnedAboutResolveSpecDeprecation) {
    console.warn("specActions.resolveSpec is deprecated since v3.10.0 and will be removed in v4.0.0; use requestResolvedSubtree instead!")
    hasWarnedAboutResolveSpecDeprecation = true
  }

  const {
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  } = getConfigs()

  if(typeof(json) === "undefined") {
    json = specSelectors.specJson()
  }
  if(typeof(url) === "undefined") {
    url = specSelectors.url()
  }

  let getLineNumberForPath = AST.getLineNumberForPath ? AST.getLineNumberForPath : () => undefined

  const specStr = specSelectors.specStr()

  const {
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  } = system.getConfigs()

  try {
    var batchResult = await requestBatch.reduce(async (prev, path) => {
      const { resultMap, specWithCurrentSubtrees } = await prev
      const { errors, spec } = await resolveSubtree(specWithCurrentSubtrees, path, {
        baseDoc: specSelectors.url(),
        modelPropertyMacro, parameterMacro, requestInterceptor, responseInterceptor
      })

      if(errSelectors.allErrors().size) {
        errActions.clearBy(err => {
          // keep if...
          return err.get("type") !== "thrown" // it's not a thrown error
            || err.get("source") !== "resolver" // it's not a resolver error
            || !err.get("fullPath").every((key, i) => key === path[i] || path[i] === undefined) // it's not within the path we're resolving
        })
      }

      if(Array.isArray(errors) && errors.length > 0) {
        let preparedErrors = errors
          .map(err => {
            err.line = err.fullPath ? getLineNumberForPath(specStr, err.fullPath) : null
            err.path = err.fullPath ? err.fullPath.join(".") : null
            err.level = "error"
            err.type = "thrown"
            err.source = "resolver"
            Object.defineProperty(err, "message", { enumerable: true, value: err.message })
            return err
          })
        errActions.newThrownErrBatch(preparedErrors)
      }

      set(resultMap,

      return specActions.updateResolved(spec)
    })
  }
}

let requestBatch = []

const debResolveSubtrees = debounce(async () => {
  const system = requestBatch.system // Just a reference to the "latest" system
  if(!system) {
    console.error("debResolveSubtrees: don't have a system to operate on, aborting.")
    return
  }

  const {
    errActions,
    errSelectors,
    fn: {
      resolveSubtree,
      AST = {}
    },
    specSelectors,
    specActions,
  } = system

  if(!resolveSubtree) {
    console.error("Error: Swagger-Client did not provide a `resolveSubtree` method, doing nothing.")
    return
  }

  let getLineNumberForPath = AST.getLineNumberForPath ? AST.getLineNumberForPath : () => undefined

  const specStr = specSelectors.specStr()

  const {
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  } = system.getConfigs()

  try {
    var batchResult = await requestBatch.reduce(async (prev, path) => {
      const { resultMap, specWithCurrentSubtrees } = await prev
      const { errors, spec } = await resolveSubtree(specWithCurrentSubtrees, path, {
        baseDoc: specSelectors.url(),
        modelPropertyMacro, parameterMacro, requestInterceptor, responseInterceptor
      })

      if(errSelectors.allErrors().size) {
        errActions.clearBy(err => {
          // keep if...
          return err.get("type") !== "thrown" // it's not a thrown error
            || err.get("source") !== "resolver" // it's not a resolver error
            || !err.get("fullPath").every((key, i) => key === path[i] || path[i] === undefined) // it's not within the path we're resolving
        })
      }

      if(Array.isArray(errors) && errors.length > 0) {
        let preparedErrors = errors
          .map(err => {
            err.line = err.fullPath ? getLineNumberForPath(specStr, err.fullPath) : null
            err.path = err.fullPath ? err.fullPath.join(".") : null
            err.level = "error"
            err.type = "thrown"
            err.source = "resolver"
            Object.defineProperty(err, "message", { enumerable: true, value: err.message })
            return err
          })
        errActions.newThrownErrBatch(preparedErrors)
      }

      return err
    })
  }

  return system
Open Source Used In SDWan 20.6.1  22319

```
path, spec) => set(specWithCurrentSubtrees, path, spec) ||
        return {
          resultMap, specWithCurrentSubtrees
        }
    }, Promise.resolve((
      resultMap: (specSelectors.specResolvedSubtree([]) ||
        Map()), toJS(), specWithCurrentSubtrees: specSelectors.specJson(toJS())
    )))
  }
}

delete requestBatch.system

// Clear stack
}(catch(e) {
  console.error(e)
})

return {
  resultMap,
  specWithCurrentSubtrees
}

return {
  resultMap: (specSelectors.specResolvedSubtree([]) ||
    Map()).toJS(),
  specWithCurrentSubtrees: specSelectors.specJson().toJS()
})

export const requestResolvedSubtree = path => system => {
  // poor-man's array comparison
  // if this ever inadequate, this should be rewritten to use
  //Im.List
  const isPathAlreadyBatched = requestBatch
    .map(arr => arr.join("@@"))
  .indexOf(path.join("@@")) > -1

  if(isPathAlreadyBatched) {
    return
  }

  requestBatch.push(path)
  requestBatch.system = system
  debResolveSubtrees()
}

export function changeParam(path, paramName, paramIn, value, isXml) {
  return {
    type: UPDATE_PARAM,
    payload: { path, value, paramName, paramIn, isXml }
  }
}

export function changeParamByIdentity(pathMethod, param, value, isXml) {
  return {
    type: UPDATE_PARAM,
    payload: { path: pathMethod, param, value, isXml }
  }
}

export const updateResolvedSubtree = (path, value) => {
  return {
    type: UPDATE_RESOLVED_SUBTREE,
    payload: { path, value }
  }
}

export const invalidateResolvedSubtreeCache = () => {
  return {
    type: UPDATE_RESOLVED_SUBTREE,
    payload: { path: [], value: Map() }
  }
}

export const validateParams = (payload, isOAS3) => {
  return {
    type: VALIDATE_PARAMS,
    payload: { pathMethod: payload, isOAS3 }
  }
}

export const updateEmptyParamInclusion = (pathMethod, paramName, paramIn, includeEmptyValue) => {
  return {
    type: UPDATE_EMPTY_PARAM_INCLUSION,
    payload: { pathMethod, paramName, includeEmptyValue }
  }
}

export function clearValidateParams(payload) {
  return {
    type: CLEAR_VALIDATE_PARAMS,
    payload: { pathMethod: payload }
  }
}

export function changeConsumesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,
    payload: { path, value, key: "consumes_value" }
  }
}

export function changeProducesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,
    payload: { path, value, key: "produces_value" }
  }
}

export const setResponse = (path, method, res) => {
  return {
    payload: { path, method, res },
    type: SET_RESPONSE
  }
}

export const setRequest = (path, method, req) => {
  return {
    payload: { path, method, req },
    type: SET_REQUEST
  }
}

export const setMutatedRequest = (path, method, req) => {
  return {
    payload: { path, method, req },
    type: SET_MUTATED_REQUEST
  }
}

// This is for
// debugging, remove this comment if you depend on this action
// const logRequest = (req) => {
//   return {
//     payload: req,
//     type: LOG_REQUEST
//   }
// }

// Actually fire the request via fn.execute
// (For debugging)
// and ease of testing
const executeRequest = (req) =>
  ({fn, specActions, specSelectors, getConfigs, oas3Selectors}) => {
    let { pathName, method, operation } = req
    let { requestInterceptor, responseInterceptor } = getConfigs()

    // ensure that explicitly-included params are in the
    // request
    if (operation && operation.get("parameters")) {
      operation.get("parameters")
        .filter(param => param && param.get("allowEmptyValue") === true)
          .forEach(param => {
            if (specSelectors.parameterInclusionSettingFor([pathName, method], param.get("name"), param.get("in"))) {
              req.parameters = req.parameters || {}
              const paramValue = paramToValue(param, req.parameters)

              // if the value is falsy or an empty Immutable iterable...
              if(!paramValue || (paramValue && paramValue.size === 0)) {
                // set it to empty string, so Swagger Client will treat it as
                // present
                req.parameters[param] = ""
              }
            }
          })
    }

    // if url is
    req.contextUrl = parseUrl(specSelectors.url()).toString()
      if(op && op.operationId) {
        req.operationId = op.operationId
      }
    }
  }}
```

oas3Selectors.requestContentType(pathName, method)
req.responseContentType = oas3Selectors.responseContentType(pathName, method) || "*/*"
const requestBody = oas3Selectors.requestBodyValue(pathName, method)
if(isJSONObject(requestBody)) {
  req.requestBody = JSON.parse(requestBody)
} else if(requestBody && requestBody.toJS) {
  req.requestBody = requestBody.toJS()
} else {
  req.requestBody = requestBody
}

let parsedRequest = Object.assign({}, req)
parsedRequest = fn.buildRequest(parsedRequest)

specActions.setRequest(req.pathName, req.method, parsedRequest)

let requestInterceptorWrapper = function(r) {
  let mutatedRequest = requestInterceptor.apply(this, [r])
parsedMutatedRequest = Object.assign({}, mutatedRequest)
  specActions.setMutatedRequest(req.pathName, req.method, parsedMutatedRequest)
  return mutatedRequest
}

req.requestInterceptor = requestInterceptorWrapper
req.responseInterceptor = responseInterceptor

const startTime = Date.now()

return fn.execute(req)
  .then(res => {
    res.duration = Date.now() - startTime
    specActions.setResponse(req.pathName, req.method, res)
  })
  .catch(err => specActions.setResponse(req.pathName, req.method, {
    error: true, err: serializeError(err)
  }))

// I'm using extras as a way to inject properties into the final, `execute` method - It's not great. Anyone have a better idea? @ponelat
export const execute = ( { path, method, ...extras }={} ) => {
  let { fn:{fetch}, specSelectors, specActions } = system
  let spec = specSelectors.specJsonWithResolvedSubtrees().toJS()
  let scheme = specSelectors.operationScheme(path, method)
  let { requestContentType, responseContentType } = specSelectors.contentTypeValues([path, method]).toJS()
  let isXml = /xml/i.test(requestContentType)
  let parameters = specSelectors.parameterValues([path, method], isXml).toJS()

  return specActions.executeRequest({
    ...extras,
    fetch,
    spec,
    pathName: path,
    method, parameters,
    requestContentType, scheme,
    responseContentType
  })
}

export function clearResponse (path, method) {
  return {
    type: CLEAR_RESPONSE,
    payload:{ path, method }
  }
}

export function clearRequest (path, method) {
  return {
    type: CLEAR_REQUEST,
    payload:{ path, method }
  }
}

export function setScheme (scheme, path, method) {
  return {
    type: SET_SCHEME,
    payload: { scheme, path, method }  
  }
}
`value` to `key` of `object` if the existing value is not equivalent* using [*SameValueZero*](http://ecma-international.org/ecma-262/7.0/#sec-samevaluezero) for equality comparisons.* `n` * @param {Object} object The object to modify.`n` n * @param {string} key The key of the property to assign.`n` n * @param {*} value The value to assign.`n` n */

```javascript
function assignValue(object, key, value) {
  var objValue = object[key];
  if (typeof hasOwnProperty.call(object, key) &
  && eq(objValue, value)) {
    (value === undefined &
  && (!hasOwnProperty.call(object, key) ||
  && eq(objValue, value))) ||
  ({
    value: value
  })
}
```

module.exports = assignValue;

```javascript

////////////////////////////////////////////////////////
Webpack Footer
////////////////////////////////////////////////////////

```
client_id: clientId, client_secret: clientSecret, redirect_uri: redirectUrl

export const authorizeAccessCodeWithBasicAuthentication = ( { auth, redirectUrl } ) => {
  let { schema, name, clientId, clientSecret } = auth
  let headers = {
    Authorization: `Basic ${btoa(clientId + `:` + clientSecret)}`
  }
  let form = { grant_type: "authorization_code", code: auth.code, client_id: clientId, redirect_uri: redirectUrl }

  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, headers })
}

export const authorizeRequest = (data) => {
  let { schema, name, clientId, clientSecret, redirectUrl } = data
  let headers = {
    Authorization: `Basic ${btoa(clientId + `:` + clientSecret)}`
  }
  let form = {
    grant_type: "authorization_code",
    code: auth.code,
    client_id: clientId,
    redirect_uri: redirectUrl
  }

  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, headers })
}

export const authorizeAccessCodeWithBasicAuthentication = () => {
  let { schema, name, clientId, clientSecret, redirectUrl } = data
  let headers = {
    Authorization: `Basic ${btoa(clientId + `:` + clientSecret)}`
  }
  let form = {
    grant_type: "authorization_code",
    code: auth.code,
    client_id: clientId,
    redirect_uri: redirectUrl
  }

  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, headers })
}

export const authorizeAccessCodeWithBasicAuthentication = ( { auth, redirectUrl } ) => {
  let { schema, name, clientId, clientSecret } = auth
  let headers = {
    Authorization: `Basic ${btoa(clientId + `:` + clientSecret)}`
  }
  let form = { grant_type: "authorization_code", code: auth.code, client_id: clientId, redirect_uri: redirectUrl }

  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, headers })
}

export const authorizeRequest = (data) => {
  let { schema, name, clientId, clientSecret, redirectUrl } = data
  let headers = {
    Authorization: `Basic ${btoa(clientId + `:` + clientSecret)}`
  }
  let form = {
    grant_type: "authorization_code",
    code: auth.code,
    client_id: clientId,
    redirect_uri: redirectUrl
  }

  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, headers })
}

export const authorizeAccessCodeWithBasicAuthentication = ( { auth, redirectUrl } ) => {
  let { schema, name, clientId, clientSecret } = auth
  let headers = {
    Authorization: `Basic ${btoa(clientId + `:` + clientSecret)}`
  }
  let form = { grant_type: "authorization_code", code: auth.code, client_id: clientId, redirect_uri: redirectUrl }

  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, headers })
}

export const authorizeRequest = (data) => {
  let { schema, name, clientId, clientSecret, redirectUrl } = data
  let headers = {
    Authorization: `Basic ${btoa(clientId + `:` + clientSecret)}`
  }
  let form = {
    grant_type: "authorization_code",
    code: auth.code,
    client_id: clientId,
    redirect_uri: redirectUrl
  }

  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, headers })
}
payload: { selectedServerUrl, namespace }

export function setRequestBodyValue ({ value, pathMethod }) {
  return {
    type: UPDATE_REQUEST_BODY_VALUE,
    payload: { value, pathMethod }
  }
}

export function setActiveExamplesMember ({ name, pathMethod, contextType, contextName }) {
  return {
    type: UPDATE_ACTIVE_EXAMPLES_MEMBER,
    payload: { name, pathMethod, contextType, contextName }
  }
}

export function setResponseContentType ({ value, path, method }) {
  return {
    type: UPDATE_RESPONSE_CONTENT_TYPE,
    payload: { value, path, method }
  }
}

export function setServerVariableValue ({ server, namespace, key, val }) {
  return {
    type: UPDATE_SERVER_VARIABLE_VALUE,
    payload: { server, namespace, key, val }
  }
}

// WEBPACK FOOTER //
// ./src/core/plugins/oas3/actions.js
module.exports = function (done, value) {
  return {
    value: value, done: !!done
  }
};

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_iter-step.js
module.exports = !require('./_descriptors') && !require('./_fails')(function () {
  return Object.defineProperty(require('./_dom-create')('div'), 'a', { get: function () { return 7; } }).a != 7;
});

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_html.js
var document = require('./_global').document;
module.exports = document && document.documentElement;

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_object-gpo.js
var global = require('./_global');
var SHARED = '__core-js_shared__';
var store = global[SHARED] || (global[SHARED] = {});
module.exports = function (key) {
  return store[key] || (store[key] = {});
};

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_property-desc.js
'use strict';
var $at = require('./_string-at')(true);

// 21.1.3.27 String.prototype[@@iterator]()
require('./_iter-define')(String, 'String', function (iterated) {
  this._t = String(iterated); // target
  this._i = 0;                // next index
  // 21.1.5.2.1 %StringIteratorPrototype%.next()
  function () {
    var O = this._t;
    var point = $at(O, this._i);
    this._i += point.length;
    return { value: point, done: false }
  }
});

// WEBPACK FOOTER //
// ./node_modules/core-js/modules/es6.string.iterator.js

Object.getPrototypeOf(O) || (function () {
  Object.getPrototypeOf = Object.prototype.toString;
})();

Object.getPrototypeOf(O) || (function () {
  var toObject = require('./_to-object');
  var arrayIndexOf = require('./_array-includes')(false);
  var IE_PROTO = require('./._shared-key')('IE_PROTO');
  var module.exports = function (object, names) {
    var O = toObject(object);
    var i = 0;
    var result = [];
    for (var key in O)
      if (key != IE_PROTO)
        if (arrayIndexOf(result, key) ||
          result.push(key))
          return {
            value: undefined, done: true
          }
  }
});

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_object-gpo.js
var global = require('./_global');
var SHARED = '__core-js_shared__';
var store = global[SHARED] || (global[SHARED] = {});
module.exports = function (key) {
  return store[key] || (store[key] = {});
};

// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_property-desc.js
'use strict';
var $at = require('./_string-at')(true);

// 21.1.3.27 String.prototype[@@iterator]()
require('./_iter-define')(String, 'String', function (iterated) {
  this._t = String(iterated); // target
  this._i = 0;                // next index
  // 21.1.5.2.1 %StringIteratorPrototype%.next()
  function () {
    var O = this._t;
    var index = this._i;
    var point;
    if (index >= O.length) return {
      value: undefined, done: true
    }
    if (index >= 0)
      if (pos < 0 || i >= l) return

getOwnPropertyNames(O, hiddenKeys); private _object-pie;

function createDesc België; var toObject = require('./to-object');

var toPrimitive = require('./to-primitive');

var has = require('./has');

var IE8_DOM_DEFINE = require('./ie8-dom-define');

var gOPD = Object.getOwnPropertyDescriptor;

exports.f = require('./descriptors') ? gOPD : function

getOwnPropertyDescriptor(O, P) {

    var O = toObject(O);

    var P = toPrimitive(P, true);

    if (IE8_DOM_DEFINE) try {

        return gOPD(O, P);

    } catch (e) { /* empty */ }

    if (has(O, P)) return createDesc(PIE.f.call(O, P), O[P]);

}

module.exports = module.exports = require('./_object-gopn.js');

module.exports = module.exports = require('./node_modules/core-js/library/modules/_object-gopn.js');

module.exports = module.exports = require('./node_modules/core-js/library/modules/_object-gopd.js');

module.exports = require('./_object-pie');

var createDesc = require('./_property-desc');

var toIObject = require('./_to-iobject');

var toPrimitive = require('./_to-primitive');

var has = require('./_has');

var IE8_DOM_DEFINE = require('./_ie8-dom-define');

var gOPD = Object.getOwnPropertyDescriptor;

exports.f = require('./_descriptors') ? gOPD : function

gOwnPropertyDescriptor(O, P) {

    return $keys(O, hiddenKeys);
};


//////////////////
// WEBPACK FOOTER
// module id = 182
// module chunks = 0

var pIE = require('./_object-pie');
var createDesc = require('./_property-desc');
var toObject = require('./_to-object');

var toPrimitive = require('./_to-primitive');

var has = require('./_has');

var IE8_DOM_DEFINE = require('./ie8-dom-define');

var gOPD = Object.getOwnPropertyDescriptor;

exports.f = require('./_descriptors') ? gOPD : function

gOwnPropertyDescriptor(O, P) {

    return $keys(O, hiddenKeys);
};


//////////////////
// WEBPACK FOOTER
// external "deep-extend"
// module id = 184
// module chunks = 0

module.exports = require("deep-extend");


//////////////////
// WEBPACK FOOTER
// ./node_modules/babel-runtime/core-js/object/define-property.js
// module id = 185
// module chunks = 0

'use strict';

/*
 * OBJECT ASSIGN DEEP
 * Allows deep cloning of plain objects that contain primitives, nested plain objects, or nested plain arrays.
 * A unified way of returning a string that describes the type of the given variable.
 */

/*
 * A unified way of returning a string that describes the type of the given variable.
 */

var _typeof = typeof Symbol === "function" && typeof Symbol.iterator === "symbol" ? function (obj) { return typeof obj; } : function (obj) {

    if (obj && typeof Symbol === "function" && obj.constructor === Symbol && obj !== Symbol.prototype ?

        "symbol" : typeof obj; }

    return typeof obj ===

    'undefined' ? 'undefined' : _typeof(obj);
}

/*
 * Branching logic which calls the correct function to clone the given value base on its type.
 */

function executeDeepMerge(target) {


    var options = {

        arrayBehaviour: _options.arrayBehaviour || 'replace' // Can be "merge" or "replace".
    };

    // Ensure we have actual objects for each.
    var objects = _objects.map(function (object) {

        return object || {};
    });

    var output = target || {};

    // Enumerate the objects and their keys.
    for (var oindex = 0; oindex < objects.length; oindex++) {

        var object = objects[oindex];

        var keys = Object.keys(object);

        var output[key] = Object.keys(object);

        var output = target || {};

        for (var key in output) {

            output[key] = target[key];

        }

        // Enumerate the objects and their keys.
        for (var oindex = 0; oindex < objects.length; oindex++) {

            var object = objects[oindex];

            var keys = Object.keys(object);

            var output[key] = keys[keyindex];

            var output = object[key];

            var type = getTypeOf(value);

            var output[key] = executeDeepMerge({

                [key]: value
            }, options);

        }

        if (typeof value !== 'undefined') {

            output[key] = quickCloneArray(value);

        } else {

            output[key] = quickCloneArray(value);

        }

    }

    return

    output;
}

/*
 * Merge all the supplied objects into the target object, breaking all references, including those of
 * nested objects
 * and arrays, and even objects nested inside arrays. The first parameter is not mutated unlike
 * Object.assign().
 */

function
objectAssignDeep(target)

```javascript
objectAssignDeepDeep(target) {
  for (var _len = arguments.length, objects = Array(_len > 1 ? _len - 1 : 0), _key = 1; _key < _len; _key++) {
    objects[_key - 1] = arguments[_key];
  }

  return executeDeepMerge(target, objects);
}
```

/*
 * Same as objectAssignDeep() except it doesn't mutate the target object and returns an entirely new object.
 */
module.exports.noMutate = function objectAssignDeepInto(target, objects, options) {
  var resultArray = Array(objects == null ? 0 : objects.length);
  var index = -1;

  while (++index < objects.length) {
    resultArray[index] = options != null ? executeDeepMerge(target, objects[index], options) : executeDeepMerge(target, objects[index]);
  }

  return resultArray;
}

/*
 * Allows an options object to be passed in to customise the behaviour of the function.
 */
module.exports.withOptions = function objectAssignDeepInto(target, objects, options) {
  return executeDeepMerge(target, objects, options);
};

```

```
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```javascript
// module id = 192
// module chunks = 0
/*
 * A specialized version of `_.reduce` for arrays without support for
 * iteratee shorthands. 
 * @param {Array} [array] The array to iterate over.
 * @param {Function} [Function] The function invoked per iteration.
 * @param {accumulator} The initial value.
 * Specify using the first element of `array` as
 * the initial value.
 * @returns {accumulator} Returns the accumulated value.
 * @function
 * @param {Array} [array] The array to iterate over.
 * @param {Function} [Function] The function invoked per iteration.
 * @param {accumulator} The initial value.
 * Specify using the first element of `array` as
 * the initial value.
 * @returns {accumulator} Returns the accumulated value.
 * @function
 * @returns {accumulator} Returns the accumulated value.
 */
function arrayReduce(array, iteratee, accumulator) {
  var index = -1,
      length = array == null ? 0 : array.length;

  if (initAccum && length) {
    accumulator = array[++index];
  }
  while (++index < length) {
    accumulator = iteratee(accumulator, array[index], index, array);
  }
  return accumulator;
}

module.exports = arrayReduce;
```

```
// module id = 193
// module chunks = 0
var MapCache = require('./_MapCache');

/**
 * Creates a function that memoizes the result of `func`. If
 * `resolver` is provided, it determines the cache key for storing the result based on the
 * arguments provided to the memoized function. By default, the first argument
 * is provided to the memoized function is used as the map cache key. The
 * function is exposed as the `cache` property on the memoized function. Its creation may be customized by replacing the
 * `_.memoize.Cache` constructor with one whose instances implement the
 * `Map` interface.
 *
 * The function to resolve the cache key.
 * @param {Function} [Function] The function to have its output memoized. 
 * @param {Function} [resolver] The function to resolve the cache key.
 * @returns {Function} Returns the new memoized function.
 */
function memoize(func, resolver) {
  if (typeof func != 'function' || (resolver != null && typeof resolver != 'function')) {
    throw new TypeError(FUNC_ERROR_TEXT);
  }
  var memoized = function() {
    var args = arguments,
        key = resolver ? resolver.apply(this, args) : args[0],
        cache = memoized.cache;

    if (cache.has(key)) {
      return cache.get(key);
    }
    var result = func.apply(this, args);
    memoized.cache = cache.set(key, result) || cache;
    return result;
  };
  memoized.cache = new (memoize.Cache || MapCache);
  return memoized;
}

// Expose
memoize.Cache = MapCache;

module.exports = memoize;
```

```
// module id = 194
// module chunks = 0
/**
 * Checks if `value` is a function.
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a function, else `false`.
 */
function isFunction(value) {
  if (!isObject(value)) {
    return false;
  }
  // The use of `Object#toString` avoids issues with the `typeof` operator
  // in Safari 9 which returns `object` for typed arrays and other constructors.
  var tag = baseGetTag(value);
  return tag == funcTag || tag == genTag || tag == asyncTag || tag == proxyTag;
}

module.exports = isFunction;
```

```
// module id = 195
// module chunks = 0
/**
 * Converts `func` to its source code.
 * @param {Function} func The function to convert.
 * @returns {string} Returns the source code.
 */
function toSource(func) {
  if (func != null) {
    try {
      return funcToString.call(func);
    } catch (e) {}
    try {
      return (func + '');
    } catch (e) {}
  }
  return '';
}

module.exports = toSource;
```

```
// module id = 196
// module chunks = 0
```

The base implementation of `_.isEqual` which supports partial comparisons in * and tracks traversed objects.

```javascript
require('./_baseIsEqual'),
    isObjectLike = require('./isObjectLike');

/**
 * The base implementation of `_.isEqual` which supports partial comparisons
 * and tracks traversed objects.
 *
 * @private
 * @param {*} value The value to compare.
 * @param {*} other The other value to compare.
 * @param {boolean} bitmask The bitmask flags.
 *  1 - Unordered comparison
 *  2 - Partial comparison
 * @param {Function} [customizer] The function to customize comparisons.
 * @param {Object} [stack] Tracks traversed `value` and `other` objects.
 * @returns {boolean} Returns `true` if the values are equivalent, else `false`.
 */
function baseIsEqual(value, other, bitmask, customizer, stack) {
  if (value === other) {
    return true;
  }
  if (value == null || other == null || (!isObjectLike(value) && !isObjectLike(other))) {
    return value !== value && other !== other;
  }
  return baseIsEqualDeep(value, other, bitmask, customizer, baseIsEqual, stack);
}

module.exports = baseIsEqual;

```
baseGetAllKeys(object, keys, getSymbols);\n````javascript
\nmodule.exports = getAllKeys;
````

```
function baseGetAllKeys(object, keys, getSymbols) {

  var result = keysFunc(object);\n  return isArray(object) ? result : arrayPush(result, getSymbols(object));
}
```

```
module.exports = baseGetAllKeys;
```

```
var arrayPush = require('./_arrayPush'),
    isArray = require('./isArray');

/**
 * The base implementation of `getAllKeys` and `getAllKeysIn` which uses
 * `keysFunc` and `symbolsFunc` to get the enumerable property
 * names and symbols of `object`.
 * @private
 * @param {Object} object The object to query.
 * @param {Function} keysFunc The function to get the keys of `object`.
 * @param {Function} symbolsFunc The function to get the symbols of `object`.
 * @returns {Array} Returns the array of property names and symbols.
 */
function baseGetAllKeys(object, keysFunc, symbolsFunc) {
  var result = keysFunc(object);
  return isArray(object) ? result : arrayPush(result, symbolsFunc(object));
}
```

```
module.exports = baseGetAllKeys;
```

```
**
 * Creates an array of the enumerable property names of the array-like `value`.
 * @private
 * @param {*} value The value to query.
 * @param {boolean} inherited Specify returning inherited property names.
 * @returns {Array} Returns the array of property names.
 */
function arrayLikeKeys(value, inherited) {
  var isArr = isArray(value),
      isArg = !isArr && isArguments(value),
      isBuff = !isArr && !isArg && isBuffer(value),
      isType = !isArr && !isArg && !isBuff && isTypedArray(value),
      skipIndexes = isArr || isArg || isBuff || isType,
      result = skipIndexes ? baseTimes(value.length, String) : [],
      length = result.length;

  for (var key in value) {
    if ((inherited || hasOwnProperty.call(value, key)) &&
        !(skipIndexes && ([].length === 0 || key == 'length') ||
        isIndex(key, length))) {
      result.push(key);
    }
  }
  return result;
}
```

```
var isObject = require('./isObject');

/**
 * Checks if `value` is suitable for strict equality comparisons, i.e. `===`.
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` if suitable for
 * strict equality comparisons, else `false`.
 */
function isStrictComparable(value) {
  return value === value
```
find addressable cases

```javascript
if (parameter.in && !VALID_IN_VALUES.indexOf(parameter.in) === -1) {
  let message = 'Wrong value for the "in" keyword. Expected one of: ${VALID_IN_VALUES.join(', ')}.';
  newErrs.push({
    message, path: err.getPath('path') + '\.in', type: 'spec', source: 'structural',
    level: 'error' });
}

if (parameter.collectionFormat &&
!VALID_COLLECTIONFORMAT_VALUES.indexOf(parameter.collectionFormat) === -1) {
  let message = 'Wrong value for the "collectionFormat" keyword. Expected one of:
${VALID_COLLECTIONFORMAT_VALUES.join(', ')}.';
  newErrs.push({
    message, path: err.getPath('path') + '\.collectionFormat', type: 'spec', source: 'structural',
    level: 'error' });
}

return newErrs.length ? fromJS(newErrs) : err // fall back to making no changes
```

```javascript
// WEBPACK FOOTER //
// ./src/core/plugins/err/error-transformers/transformers/parameter-oneof.js
import { List } from 'immutable'
import { createSelector } from 'reselect'

const state = state => state

export const allErrors = createSelector(
  state, err => err.get('errors', List())
)

export const lastError = createSelector(
  allErrors, all => all.last()
)

```

```javascript
// WEBPACK FOOTER //
// ./src/core/plugins/err/selectors.js
import reducers from './reducers'
import * as actions from './actions'
import * as selectors from './selectors'

export default function() {
  return {
    statePlugins: {
      layout: {
        reducers, actions, selectors
      }
    }
  }
}

```

```javascript
// WEBPACK FOOTER //
// ./src/core/plugins/layout/index.js
import { fromJS } from 'immutable'
import {
  UPDATE_LAYOUT,
  UPDATE_FILTER,
  UPDATE_MODE,
  SHOW
} from './actions'

export default {

  [UPDATE_LAYOUT]: (state, action) => state.set('layout', action.payload),

  [UPDATE_FILTER]: (state, action) => state.set('filter', action.payload),

  [SHOW]: (state, action) => {
    const isShown = !!action.payload.shown
    // This is one way to serialize an array, another (preferred) is to convert to json-pointer
    // TODO: use json-pointer serialization instead of fromJS(...), for performance
    const thingToShow = fromJS(action.payload.thing)
    // This is a map of paths to bools
    const thing = normalizeArray(action.payload.thing)
    return state.update('shown', thing)
  },

  [UPDATE_MODE]: (state, action) => {
    const thing = action.payload.thing
    return state.setIn(['modes', ...thing], (mode || '') + '')
  }

}

```

```javascript
// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_iter-call.js
// module id = 221
// module chunks = 0
```

```javascript
```

```javascript
// WEBPACK FOOTER //
// ./node_modules/core-js/library/modules/_is-array-iter.js
// module id = 222
// module chunks = 0
```
import reducers, actions, selectors, wrapActions from './actions'
import * as actions from './actions'
import * as selectors from './selectors'
import * as wrapActions from './actions'

export default function() {
  return {
    statePlugins: {
      spec: {
        reducers,
        actions,
        selectors,
        wrapActions,
      }
    }
  }
}

import { fromJS, List } from 'immutable'
import { fromJSOrdered, validateParam, paramToValue } from './core/utils'
import win from '../../window'

import { specJsonWithResolvedSubtrees, parameterValues, parameterInclusionSettingFor, } from './selectors'
import { UPDATE_SPEC, UPDATE_URL, UPDATE_JSON, UPDATE_PARAM, UPDATE_EMPTY_PARAM_INCLUSION, VALIDATE_PARAMS, SET_RESPONSE, SET_REQUEST, SET_MUTATED_REQUEST, UPDATE_RESOLVED, UPDATE_RESOLVED_SUBTREE, UPDATE_OPERATION_META_VALUE, CLEAR_RESPONSE, CLEAR_VALIDATE_PARAMS, SET_SCHEME } from './actions'

export default {
  [UPDATE_SPEC]: (state, action) => {
    let { path, paramIn, paramName } = action.payload
    return state.setIn(['meta', 'paths', path, 'parameters', paramToIdentifier(paramName)], paramToValue(param, paramValues))
    const isEmptyValueIncluded = parameterInclusionSettingFor(state, path, paramName, param.getIn('name'), param.getIn('in'))
    const errors = validateParam(param, paramValues)({ bypassRequiredCheck: isEmptyValueIncluded })
    return state.setIn(['meta', 'paths', path, 'parameters', paramToIdentifier(paramName), 'errors'], fromJS(errors))
  },
  [UPDATE_URL]: (state, action) => {
    return state.setIn(['url', action.payload, 'url'], action.payload + '
  },
  [UPDATE_JSON]: (state, action) => {
    return state.setIn(['json', fromJSOrdered(action.payload)], action.payload)
  },
  [UPDATE_RESOLVED]: (state, action) => {
    return state.setIn(['resolved'], fromJSOrdered(state.payload))
  },
  [UPDATE_RESOLVED_SUBTREE]: (state, action) => {
    let { path, paramIn, paramName } = action.payload
    return state.setIn(['resolvedSubtrees', path, parameterValues, parameterInclusionSettingFor, specJsonWithResolvedSubtrees], fromJSOrdered(action.payload))
  },
  [UPDATE_PARAM]: (state, { payload: { path, paramIn, paramName, param } }) => {
    let paramKey = paramToIdentifier(param)
    const valueKey = isXml ? 'value_xml' : 'value'
    return state.setIn(['meta', 'paths', path, 'parameters', paramKey, valueKey], value)
  },
  [UPDATE_EMPTY_PARAM_INCLUSION]: (state, action) => {
    let { path, paramIn, paramName } = action.payload
    return state.setIn(['meta', 'paths', path, 'parameter_inclusions', paramKey], fromJSOrdered(action.payload))
  },
  [VALIDATE_PARAMS]: (state, action) => {
    let { path, paramIn, paramName } = action.payload
    return state.setIn(['meta', 'paths', path, 'parameters', paramKey], fromJSOrdered(action.payload))
  },
  [CLEAR_VALIDATE_PARAMS]: (state, action) => {
    let { path, paramIn, paramName } = action.payload
    return state.setIn(['meta', 'paths', path, 'parameters', paramKey], fromJSOrdered(action.payload))
  },
  [CLEAR_RESPONSE]: (state, action) => {
    return state.setIn(['responses', path, 'error'], fromJSOrdered(action.payload))
  },
  [SET_RESPONSE]: (state, action) => {
    let { path, paramIn, paramName } = action.payload
    return state.setIn(['meta', 'paths', path, 'parameters', paramKey], fromJSOrdered(action.payload))
  },
  [SET_REQUEST]: (state, action) => {
    let { path, paramIn, paramName } = action.payload
    return state.setIn(['requests', path, 'error'], fromJSOrdered(action.payload))
  },
  [SET_MUTATED_REQUEST]: (state, action) => {
    let { path, paramIn, paramName } = action.payload
    return state.setIn(['mutatedRequests', path, 'error'], fromJSOrdered(action.payload))
  },
  [UPDATE_OPERATION_META_VALUE]: (state, action) => {
    let { path, paramIn, paramName } = action.payload
    return state.setIn(['meta', 'paths', path, 'parameters', paramKey], fromJSOrdered(action.payload))
  },
  [SET_SCHEME]: (state, action) => {
    let { path, paramIn, paramName } = action.payload
    return state.setIn(['scheme', path, 'error'], fromJSOrdered(action.payload))
  },
}
const makeContainer = (getSystem, component, reduxStore) => {
  const mapStateToProps = function(state, ownProps) {
    const propsForContainerComponent = Object.assign({},
      ownProps, getSystem())
    const ori = component.prototype.mapStateToProps || (state => { return {state} })
    return ori(state, propsForContainerComponent)
  }

  let wrappedWithSystem = SystemWrapper(getSystem, component, reduxStore)
  let connected = connect(mapStateToProps)(wrappedWithSystem)
  if(reduxStore)
    return RootWrapper(reduxStore, connected)
  return connected
}

const handleProps = (getSystem, mapping, props, oldProps) => {
  for (let prop in mapping) {
    let fn = mapping[prop]
    if(typeof fn === 'function')
      fn(props[prop], oldProps[prop], getSystem())
  }
}

export const makeMappedContainer = (getSystem, getStore, memGetComponent, getComponents, componentName, mapping) => {

  return class extends Component {

    constructor(props, context) {
      super(props, context)
      handleProps(getSystem, mapping, props, {})
    }

    componentWillReceiveProps(nextProps) {
      handleProps(getSystem, mapping, nextProps, this.props)
    }

    render() {
      let cleanProps = omit(this.props, mapping ? Object.keys(mapping) : [])
      let Comp = memGetComponent(componentName, 'root')
      return <Comp {...cleanProps}/>
    }

  }

}

export const render = (getSystem, getStore, getComponent, getComponents, domNode) => {
  let App = (getComponent(getSystem, getStore, getComponents, 'App', 'root'))
  ReactDOM.render(( <App/> ),
    domNode)
}

// Render try/catch wrapper
const createClass = component => class extends Component {
  render() {
    return component(this.props)
  }
}

const Fallback = ({ name }) => <div style={{ // eslint-
disabled-line react/prop-types
    padding: '1em',
    'color': '#aaa'
  }}> <i>Could not render { name === 't' ? 'this component' : name }, see the console.</i></div>

const wrapRender = (component) => {
  const isStateless = component => !(component.prototype && component.prototype.isReactComponent)

  const target = isStateless(component) ? createClass(component) : component
  const ori = target.prototype.render

  target.prototype.render = function render(...args) {
    try {
      return ori.apply(this, args)
    } catch (error) {
      console.error(error) // eslint-disable-line no-console
      return <Fallback error={error} name={target.name} />
    }
  }

  return target
}

export const getComponent = (getSystem, getStore, getComponents, componentName, container) => {

  if(typeof componentName !== 'string')
    throw new TypeError("Need a string, to fetch a component. Was given a " + typeof componentName)

  let component = getComponents(componentName)
  if(!component) {
    getSystem().log.warn("Could not find component", componentName)
    return null
  }

  if(!container)
    return wrapRender(component)

  if(container === 'root')
    return makeContainer(getSystem, component, getStore())

  // container == truthy
  return makeContainer(getSystem, wrapRender(component))
}
const schema = specJson().getIn([...definitionBase, key])

if(!schema) {
  return null
}

return authorize({
  [key]: {
    value,
    schema: schema.toJS()
  }
})

const state = state => state

export const shownDefinitions = createSelector(
    state,
    auth => auth.get("showDefinitions")
)

export const definitionsToAuthorize = createSelector(
    state,
    () => ( { specSelectors } ) => {
      let definitions = specSelectors.securityDefinitions() || Map({})
      let list = List()

      definitions.entrySeq().forEach( ( [key, val] ) => {
        let map = Map()

        map = map.set(key, val)
        list = list.push(map)
      })

      return list
    }
)

export const getDefinitionsByNames = ( state, securities ) => ( { specSelectors } ) => {
  console.warn("WARNING: getDefinitionsByNames is deprecated and will be removed in the next major version.")
  let securityDefinitions = specSelectors.securityDefinitions()
  let result = List()

  securities.valueSeq().forEach( (names) => {
    let map = Map()
    names.entrySeq().forEach( ([name, scopes]) => {
      let definition = securityDefinitions.get(name)
      let allowedScopes

      if ( definition.get("type") === "oauth2" && scopes.size ) {
        allowedScopes = definition.get("scopes")

        allowedScopes.keySeq().forEach( (key) => {
          if ( !scopes.contains(key) ) {
            allowedScopes = allowedScopes.delete(key)
          }
        })

        definition = definition.set("allowedScopes", allowedScopes)
      }

      map = map.set(name, definition)
    })

    result = result.push(map)
  })

  return result
}

export const definitionsForRequirements = (state, securities = List()) => ({ authSelectors }) => {
  const allDefinitions = authSelectors.definitionsToAuthorize() || List()
  const securedDefinitions = (state, securities) => ( { specSelectors } ) => {
    return allDefinitions.filter((def) => {
      return securities.some(sec => sec.equals(def.keySeq().first()))
    })
  }

  const securedDefinitions = securedDefinitions(state, securities)

  return securedDefinitions.filter((def) => {
    return def
  })
}

export const isAuthorized = ( state, securities ) => ( { authSelectors } ) => {
  let authorized = authSelectors.authorized()

  if(!List.isList(securities)) {
    return null
  }

  return !!securities.toJS().filter( ( security ) => {
      let isAuthorized = true

      return
      Object.keys(security).map((key) => {
        return isAuthorized || !!authSelectors.authorized(key)
      }).indexOf(false) === -1
    }).length
}

export const execute = ( oriAction, { authSelectors, specSelectors }) => ({ path, method, operation, extras }) => {
  let securities = {
    authorized: authSelectors.authorized() && authSelectors.authorized().toJS(),
    definitions: specSelectors.securityDefinitions() && specSelectors.securityDefinitions().toJS(),
    specSecurity: specSelectors.securityDefinitions().toJS(),
    allowedScopes: definition.get("allowedScopes")
  }

  return oriAction({ path, method, operation, securities, ...extras })
}
```javascript
// WEBPACK FOOTER // ./src/core/plugins/auth/spec-wrap-actions.js
import { shallowEqualKeys } from './core/utils'

export default function() {
  return {
    fn: shallowEqualKeys
  }
}

// WEBPACK FOOTER // ./src/core/plugins/util/index.js
/* global Promise */

import {
  createSelector
} from 'reselect'
import { Map } from 'immutable'
import win from '../window'

export default function downloadUrlPlugin (toolbox) {
  let { fn } = toolbox

  const actions = {
    download: (url)=>
      ({ errActions, specSelectors, specActions, getConfigs }) => {
        let { fetch } = fn
        const config = getConfigs()
        url = url || specSelectors.url()
        specActions.updateLoadingStatus("loading")
        errActions.clear({ source: "fetch"})
        fetch({
          url,
          loadSpec: true,
          requestInterceptor: config.requestInterceptor || (a => a),
          responseInterceptor: config.responseInterceptor || (a => a),
          credentials: "same-origin",
          headers: {
            "Accept": "application/json, */*
          }
        }).then(next,next)

        function next(res) {
          if(res instanceof Error || res.status >= 400) {
            specActions.updateLoadingStatus("failed")
            errActions.newThrownErr(Object.assign( new Error((res.message || res.statusText) + " " + url), {source: "fetch"}))
            return
          }
          specActions.updateLoadingStatus("success")
          specActions.updateSpec(res.text)
          if(specSelectors.url() !== url) {
            specActions.updateUrl(url)
          }
        }

      },

      updateLoadingStatus: (status) => {
        let enums
        if(enums.indexOf(status) === -1) {
          console.error(`Error: ${status} is not one of ${JSON.stringify(enums)}`)
        }

        return {
          type: "spec_update_loading_status",
          payload: status
        }
      }
  }

  let reducers = {
    "spec_update_loading_status": (state, action) => {
      return (typeof action.payload === "string")
        ? state.set("loadingStatus", action.payload)
        : state
    }
  }

  let selectors = {
    loadingStatus: createSelector(
      state => {
        return state || Map()
      },
      spec => spec.get("loadingStatus") || null
    )
  }

  return {
    statePlugins: {
      spec: { actions, reducers, selectors }
    }
  }
}

// WEBPACK FOOTER // ./src/core/plugins/download-url.js
import yamlConfig from "root/swagger-config.yaml"
import {
  parseYamlConfig
} from "./helpers"
import * as actions from "./spec-actions"
import * as selectors from "./selectors"
import reducers from "./reducers"

const specSelectors = {
  getLocalConfig: () => {
    return parseYamlConfig(yamlConfig)
  }
}

export default function configsPlugin() {

  return {
    statePlugins: {
      spec: {
        actions: specActions,
        selectors: specSelectors,
      },
      configs: {
        reducers,
        actions,
        selectors,
      }
    }
  }
}
```

The text contains JavaScript code snippets, which are used to manipulate state and routing in a web application. The code includes functions for handling configurations, selectors, and reducers, as well as a deep-linking system for navigating through different states of the application.

Some key functions include:
- `get`: A function that takes a state and a path, and returns the state's value at that path
- `UPDATE_CONFIGS` and `TOGGLE_CONFIGS`: Actions that are dispatched to update the state
- `scrollTo` and `parseDeepLinkHash`: Functions that handle navigation based on URL parameters
- `show`: A function that sets a hash in the URL based on the URL parameters
- `scrollTo` and `parseDeepLinkHash`: Functions that handle navigation based on URL parameters

The code appears to be part of a larger application, possibly a web application with a focus on deep linking and state management.
function getScrollParent(element, includeHidden) {
  // ... (same as before)
}

// From: https://stackoverflow.com/a/42543908/3933724
// Modified to return html instead of body element as last resort
function getScrollParent(element, includeHidden) {
  // ... (same as before)
}

export default {
  fn: {
    getScrollParent,
  },
  statePlugins: {
    layout: {
      actions: {
        scrollToElement,
        scrollTo,
        clearScrollTo,
        readyToScroll,
        parseDeepLinkHash
      },
      selectors: {
        getScrollToKey(state) {
          return state.get("scrollToKey")
        },
        isShownKeyFromUrlHashArray(state, urlHashArray) {
          const [tag, operationId] = urlHashArray
          // We only put operations in the URL
          if(operationId) {
            return ["operations", tag, operationId]
          } else if (tag) {
            return ["operations-tag", tag]
          }
          return []
        },
        urlHashArrayFromIsShownKey(state, isShownKey) {
          let [type, tag, operationId] = isShownKey
          // We only put operations in the URL
          if(type == "operations") {
            return [tag, operationId]
          } else if (type == "operations-tag") {
            return [tag]
          }
          return []
        },
      },
      reducers: {
        [SCROLL_TO](state, action) {
          return state.set("scrollToKey", Im.fromJS(action.payload))
        },
        [CLEAR_SCROLL_TO](state) {
          return state.delete("scrollToKey")
        },
      },
      wrapActions: {
        show
      }
    }
  }
}

export const setHash = (value) => {
  if(value) {
    return history.pushState(null, null, `#${value}`)
  } else {
    return window.location.hash = ""
  }
}

export default function() {
  return {
    fn: {
      opsFilter
    }
  }
}

export default function(taggedOps, phrase) {
  return taggedOps.filter((tagObj, tag) => tag.indexOf(phrase) !== -1)
}

let engaged = false

export default function() {
  return {
    statePlugins: {
      spec: {
        wrapActions: {
          updateSpec: (ori) => (...args) => {
            engaged = true
            return ori(...args)
          },
          updateJsonSpec: (ori, system) => (...args) => {
            if(engaged && typeof cb === "function") {
              // call 'onComplete' on next tick, which allows React to
              // reconcile the DOM before we notify the user
              setTimeout(cb, 0)
            }
            return ori(...args)
          }
        },
      },
    }
  }
}
setTimeout(cb, 0)
              engaged = false
            }

            return ori(...args)
          }
        }
      }
    }
  }

  // WEBPACK FOOTER
  // ./node_modules/core-js/library/modules/_validate-collection.js
  module.exports = Object

  // WEBPACK FOOTER
  // ./src/core/plugins/on-complete/index.js
  var isObject = require('./_is-object');
  module.exports = function (it, TYPE) {
    if (!isObject(it) || it._t !== TYPE) throw TypeError('Incompatible receiver, ' + TYPE + ' required!');
    return it;
  }

  // WEBPACK FOOTER
  // ./src/img/rolling-load.svg
props.multiple ? [] : this.state.value.map((v) => v)}

  return 
}

  onChange = (e) => {
    let {
      onChange, multiple
    } = this.props
    let options = e.target.options
    let value

    if (multiple)
      { value = options.map((option) => { return option.value }); }
    else
      { value = e.target.value; }

    if (allowEmptyValue & value === <option value="">--</option>)
    && onChange(value) ;

    this.setState({ value: value })
    onChange && onChange(value)
  }

  componentWillReceiveProps(nextProps) {
    if (nextProps.value !== this.props.value) {
      this.setState({ value: nextProps.value })
    }
  }

  render() {
    let {
      allowedValues, multiple, allowEmptyValue, disabled
    } = this.props
    let value = this.state.value
    let { className } = this.props

    return (
      <select
        className={this.props.className}
        multiple={multiple}
        value={value}
      >
        <option> -- </option>
        { allowedValues.map((item, key) => <option key={key} value={item}> {item} </option>) }
      </select>
    )
  }

}

export class Link extends React.Component {
  render() {
    return <a {...this.props} rel="noopener noreferrer" className={xclass(this.props.className, "link")}/>
  }
}

Link.propTypes = {
  className: PropTypes.string
}

const NoMargin = ({children}) => <div style={{height: "auto", border: "none", margin: 0, padding: 0}}> {children} </div>

NoMargin.propTypes = {
  children: PropTypes.node
}

export class Collapse extends React.Component {
  static propTypes = {
    isOpened: PropTypes.bool,
    children: PropTypes.node.isRequired,
    animated: PropTypes.bool
  }

  static defaultProps = {
    isOpened: false,
    animated: false
  }

  renderNotAnimated() {
    if (!this.props.isOpened)
      return <noscript/>
    return (
      <NoMargin>
        {this.props.children}
      </NoMargin>
    )
  }

  render() {
    let {
      animated, isOpened, children
    } = this.props

    if (!animated)
      return this.renderNotAnimated()

    children = isOpened ? children : null
    return (
      <NoMargin>
        {children}
      </NoMargin>
    )
  }
}

// WEBPACK FOOTER // /app/jscore/components/layout-utils.jsx" import React from \"react\" /import ImmutablePureComponent from \"react-immutable-pure-component\" /import ImPropTypes from \"react-immutable-proptypes\" /import default class Model extends ImmutablePureComponent {
  static propTypes = {
    schema: ImPropTypes.orderedMap.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    isRef: PropTypes.bool,
    required: PropTypes.bool,
    expandDepth: PropTypes.number,
    depth: PropTypes.number,
    specPath: ImPropTypes.list.isRequired,
  }

  getModelName = (ref) => {
    if (ref.indexOf("#/definitions/") !== -1) {
      return ref.replace(/^.*#\/definitions\//, "")
    }
    if (ref.indexOf("#/components/schemas/") !== -1) {
      return ref.replace(/^.*#\/components\/schemas\//, "")
    }
  }

  getRefSchema = (model) => {
    let { specSelectors } = this.props
    return specSelectors.findDefinition(model)
  }

  render() {
    let {
      getComponent, getConfigs, specSelectors, schema, name, isRef, specPath, displayName
    } = this.props

    let name = this.getModelName(name)
    let schema = this.getRefSchema(name)
    let isRef = isRef !== undefined ? isRef : !!$ref

    if (isRef & !schema)
      return <span className="model-model-title">
        <span className="model-title__text">{displayName || name}</span>
      </span>
    else
      { return <ObjectModel
        className="object" { ...this.props }
        specPath={specPath}
        getConfigs={getConfigs}
        schema={schema}
        name={name}
        isRef={isRef}
        specPath={specPath}
        getComponents={getComponents}
        specSelectors={specSelectors}
        schema={schema}
        name={name}
        isRef={isRef}
      />; }

    if (isRef & !schema)
      return <ObjectModel
        className={this.props.className}
        ...this.props
      />

    if (isRef & !schema)
      return <ObjectModel
        className={this.props.className}
        ...this.props
      />

    if (isRef & !schema)
      return <ObjectModel
        className={this.props.className}
        ...this.props
      />

    if (isRef & !schema)
      return <ObjectModel
        className={this.props.className}
        ...this.props
      />

New selectors

```javascript
export const servers = onlyOAS3(createSelector(
  spec, spec => spec.getIn(['servers'])) || Map())
```

```javascript
export const isOAS3 = (ori, system) => () => {
  const spec = system.getSystem().specSelectors.specJson()
  if(isOAS3Helper(spec)) {
    return selector(system, ...args)
  } else {
    return ori(...args)
  }
}
```

```javascript
export const isSwagger2 = (ori, system) => () => {
  const spec = system.getSystem().specSelectors.specJson()
  return isSwagger2Helper(Map.isMap(spec) ? spec : specSelectors.securityDefinitions(state, spec))
}
```

```javascript
export const definitionsToAuthorize = onlyOAS3(createSelector(
  state, ({specSelectors}) => specSelectors.securityDefinitions(),
  (system, definitions) => {
    // Coerce our OpenAPI 3.0 definitions into monoflow definitions
    // that look like Swagger2 definitions.
    let list = List().if(definations) || null
    definitions.entrySeq().forEach((defName, definition) => {
      const type = definition.get('type')
      if(type === 'oauth2') {
        definition.get('flows').entrySeq().forEach((flowKey, flowVal) => {
          let translatedDef = fromJS({
            flow: flowKey,
            authorizationUrl: flowVal.get('authorizationUrl'),
            tokenUrl: flowVal.get('tokenUrl'),
            scopes: flowVal.get('scopes'),
            type: definition.get('type')
          })
          list = list.push(new Map({
            [defName]: translatedDef.filter((v) => {
              return v !== undefined
            })
          })
        })
      }
      if(type === 'http' || type === 'apiKey') {
        list = list.push(new Map({
          [defName]: definition
        })
      }
    })
    return list
  }
))
```
return <OperationContainer
          ...props
          op={op}
          key={method}
          tag={""}
          method={method}
          path={pathItemName}
          specPath={specPath.push(callbackName, pathItemName, method)}
          allowTryItOut={false}
          />
      }) }
  }) }
</div>
  })
  return <div>
    {callbackElements}
  </div>
}

Callbacks.propTypes = {
  getComponent:
    PropTypes.func.isRequired,
  callbacks: ImPropTypes.iterable.isRequired,
  specPath:
    ImPropTypes.list.isRequired,
}

export default Callbacks


const RequestBody = ({
  requestBody,
  requestBodyValue,
  getComponent,
  getConfigs,
  specSelectors,
  fn,
  contentType,
  isExecute,
  specPath,
  onChange,
  activeExamplesKey,
  updateActiveExamplesKey,
}) => {
  const handleFile = (e) => {
    onChange(e.target.files[0])
  }

  const Markdown = getComponent("Markdown")
  const ModelExample = getComponent("modelExample")
  const RequestBodyEditor = getComponent("RequestBodyEditor")
  const HighlightCode = getComponent("highlightCode")
  const ExamplesSelectValueRetainer = getComponent("ExamplesSelectValueRetainer")
  const Example = getComponent("Example")

  const {
    showCommonExtensions } = getConfigs()

  const requestBodyDescription = (requestBody && requestBody.get("description")) || null
  const requestBodyContent = (requestBody && requestBody.get("content")) || new OrderedMap()
  contentType = contentType || requestBodyContent.keySeq().first() || ""

  const mediaTypeValue = requestBodyContent.get(contentType, OrderedMap())
  const schemaForMediaType = mediaTypeValue.get("schema", OrderedMap())
  const examplesForMediaType = mediaTypeValue.get("examples", OrderedMap())

  const handleExamplesSelect = (key /*, { isSyntheticChange } */) => {
    updateActiveExamplesKey(key)
  }

  if(!mediaTypeValue.size) {
    return null
  }

  const isObjectContent = mediaTypeValue.getIn(["schema", "type"] === "object"

  if(
    contentType === "application/octet-stream"
    || contentType.indexOf("image/") === 0
    || contentType.indexOf("audio/") === 0
    || contentType.indexOf("video/") === 0
  ) {
    const Input =
      getComponent("Input")

    if(!isExecute) {
      return <i>
        Example values are not available for
        <code>application/octet-stream</code> media types.
        </i>
    }

    return <Input type={"file"}
      onChange={handleFile} />
  }

  if (
    isObjectContent &&
    (contentType === "application/x-www-form-urlencoded" || contentType.indexOf("multipart/" === 0)
    || schemaForMediaType.get("properties", OrderedMap()).size > 0 )
  ) {
    const JsonSchemaForm =
      getComponent("JsonSchemaForm")
    const ParameterExt = getComponent("ParameterExt")
    const bodyProperties = schemaForMediaType.get("properties", OrderedMap())
    const requestBodyValue =
      Map.isMap(requestBodyValue) ? requestBodyValue : OrderedMap()

    return <table className="table-container">
      { requestBodyDescription &&
        <Markdown source={requestBodyDescription} />
      }

      <tbody>
        {
          bodyProperties.map((prop, key) => {
            let commonExt = showCommonExtensions ? getCommonExtensions(prop) : null
            const required = schemaForMediaType.get("required", List()).includes(key)
            const type = prop.get("type")
            const format = prop.get("format")
            const description = prop.get("description")
            const currentValue = requestBodyValue.get(key)

            let initialValue = prop.get("default") ||

            return <tr>
              <td>{prop.get("title")}</td>
              <td>{prop.get("description")}</td>
              <td>{prop.get("default")}</td>
              <td>{prop.get("type")}</td>
              <td>{prop.get("format")}</td>
              <td>{prop.get("required")}</td>
            </tr>
          })
        }
      </tbody>
    </table>

    return 
  }

  return 
</div>
prop.get('\"example\"') || \"\n\n\n if (initialValue === \"true\" && type === \"object\") {
  initialValue = getSampleSchema(prop, false, {
    includeWriteOnly: true
  })
}

if (type === \"string\" && & type === \"object\") {
  initialV

  const isFile = type === \"string\" && (format === \"binary\" || format === \"base64\")

return <tr key={key} className="parameters" data-property-name={key}>
  <td className="parameters-col_name">
    <div className={required ? \"parameter__name required\" : \"parameter__name\"}>
      { key }
      { !required ? null : <span style={{color: \"red\"}}>&nbsp;*</span> }
    </div>
    <div className="parameter__type">
      { type }
      { format && <span className="prop-format">(${format})</span>}
    </div>
    <div className="parameter__deprecated">
      { prop.get("deprecated") ? \"deprecated\" : null }
    </div>
  </td>
  <td className="parameters-col_description">
    { isExecute ? <div><JsonSchemaForm
      fn={fn}
      dispatchInitialValue={!isFile}
      schema={prop}
      description={key}
      getComponent={getComponent}
      value={currentValue === undefined ? initialValue : currentValue}
      onChange={(value) => {
        onChange(value, [key])
      }}
    /></div> : null }
  </td>
</tr>
})

return <div>
  {
    requestBodyDescription && <Markdown source={requestBodyDescription} />
  }
  {
    examplesForMediaType ? (
      <ExamplesSelectValueRetainer
        examples={examplesForMediaType}
        currentKey={activeExamplesKey}
        currentUserInputValue={requestBodyValue}
        onSelect={handleExamplesSelect}
        updateValue={onChange}
        defaultToFirstExample={true}
        getComponent={getComponent}
      />
    ) : null
  }
  {
    isExecute ? (
      <div>
        <RequestBodyEditor
          value={requestBodyValue}
          defaultValue={getDefaultRequestBodyValue(requestBody, contentType, activeExamplesKey)}
          onChange={onChange}
          getComponent={getComponent}
        />
      </div>
    ) : (
      <ModelExample
        getComponent={getComponent}
        getConfigs={getConfigs}
        specSelectors={specSelectors}
        expandDepth={1}
        isExecute={isExecute}
        schema={mediaTypeValue.get("schema")}
        specPath={specPath.push("content", contentType)}
        example={
          <HighlightCode
            className="body-param__example"
            value={stringify(requestBodyValue) || getDefaultRequestBodyValue(requestBody, contentType, activeExamplesKey)}
          />
        }
      />
    )
  }
  {
    examplesForMediaType ? (
      <Example
        example={examplesForMediaType.get(activeExamplesKey)}
        getComponent={getComponent}
      />
    ) : null
  }
</div>
let value = this.getValue();
let errors = errSelectors.allErrors().filter(err => err.get("authId") === name);
if (scheme === "basic") {

  let username = value ? value.get("username") : null;
  let value = this.getValue();
  let errors = errSelectors.allErrors().filter(err => err.get("authId") === name);

  if(scheme === "basic") {
    let
username = value ? value.get("username") : null
return <div>
  <h4>
    { name || schema.get("name") } (http, Basic)
    <JumpToPath path={[ "securityDefinitions", name ]} />
  </h4>
  { username && <h6>Authorized</h6> }
  <Row>
    <Markdown source={ schema.get("description") } />
  </Row>
  <Row>
    <label>Username:</label>
    {
      username ? <code> { username } </code>
               : <Col><Input type="text" required="required" name="username" onChange={ this.onChange }/></Col>
    }
  </Row>
  <Row>
    Password:
    {
      username ? <code> ****** </code>
               : <Col><Input required="required"
                                     autoComplete="new-password"
                                     name="password"
                                     type="password"
                                     onChange={ this.onChange } />
    }
  </Row>
  { errors.valueSeq().map( (error, key) => {
    return <AuthError error={ error }
                        key={ key } />
  } )
}
</div>
}

if(scheme === "bearer") {

  return (<
    <div>
      { name || schema.get("name") } (http, Bearer)
      <JumpToPath path={[ "securityDefinitions", name ]} />
    </div>
    
    { value && <h6>Authorized</h6> }
    <Row>
      <Markdown source={ schema.get("description") } />
    </Row>
    <Row>
      <label>Value:</label>
      {
        value ? <code> ****** </code>
              : <Col><Input type="text" onChange={ this.onChange } />
        }
      {
        errors.valueSeq().map( (error, key) => {
          return <AuthError error={ error }
                              key={ key } />
        } )
      }
    </Row>
  </div>
}
}

return <div>
<em><b>{name}</b> HTTP authentication: unsupported scheme "${scheme}"</em>
</div>
}

export default class OperationServers extends React.Component {
  static propTypes = {
    // for self
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    operationServers: ImPropTypes.list,
    pathServers: ImPropTypes.list,
    setSelectedServer: PropTypes.func.isRequired,
    setServerVariableValue: PropTypes.func.isRequired,
    getSelectedServer: PropTypes.func.isRequired,
    getServerVariable: PropTypes.func.isRequired,
    getEffectiveServerValue: PropTypes.func.isRequired,
    // utils
    getComponent: PropTypes.func.isRequired
  }

  setSelectedServer = (server) => {
    const { path, method } = this.props
    // FIXME: we should be keeping up with this in props/state upstream of us
    // instead of cheating™ with `forceUpdate`
    this.forceUpdate()
    return this.props.setSelectedServer(server, `${path}:${method}`)
  }

  setServerVariableValue = (obj) => {
    const { path, method } = this.props
    // FIXME: we should be keeping up with this in props/state upstream of us
    // instead of cheating™ with `forceUpdate`
    this.forceUpdate()
    return this.props.setServerVariableValue({
      ...obj,
      namespace: `${path}:${method}`
    })
  }

  getSelectedServer = () => {
    const { path, method } = this.props
    return this.props.getSelectedServer(`${path}:${method}`)
  }

  getServerVariable = (server, key) => {
    const { path, method } = this.props
    return this.props.getServerVariable({
      namespace: `${path}:${method}`
    }, server, key)
  }

  getEffectiveServerValue = (server) => {
    const { path, method } = this.props
    return this.props.getEffectiveServerValue({
      server,
      namespace: `${path}:${method}`
    })
  }

  render() {
    const {
      // for self
      operationServers,
      pathServers,
      // util
      getComponent
    } = this.props

    if(!operationServers && !pathServers) {
      return null
    }

    const Servers = getComponent("Servers")

    const serversToDisplay = operationServers || pathServers
    const displaying = operationServers ? "operation" : "path"

    return <div className="opblock-section operation-servers">
      <div className="opblock-section-header">
        <div className="tab-header">
          <h4 className="opblock-title">Servers</h4>
        </div>
      </div>
      <div className="opblock-description-wrapper">
        <h4 className="message">
          These {displaying}-level options override the global server options.
        </h4>
        <Servers
          servers={serversToDisplay}
          currentServer={this.getSelectedServer()}
          setSelectedServer={this.setSelectedServer}
          setServerVariableValue={this.setServerVariableValue}
          getSelectedServer={this.getSelectedServer}
          getServerVariable={this.getServerVariable}
          getEffectiveServerValue={this.getEffectiveServerValue}
          getComponent={this.getComponent}
        />
      </div>
    </div>
  }
}
const Input = getComponent(`Input`); 

if(type === `string` && (format === `binary` || format === `base64`)) {
  return <Input type="file" className={(errors.length ? `invalid` : ``)}
title={ errors.length ? errors : `"
onChange={(e) => {
  onChange(e.target.files[0])
  onChange={(e) => {
    disabled={Ori.isDisabled} />
  } else {
    return <Ori {...props} />
  }
})

// WEBPACK FOOTER //
// ./src/core/plugins/oas3/wrap-components/json-schema-string.jsx
import { OrderedMap } from `immutable`

export const selectedServer = onlyOAS3((state, namespace) => {
  return state.getIn([`requestData`, `path`, `method`, `bodyValue`]) || null
})

export const requestBodyValue = onlyOAS3((state, path, method) => {
  return state.getIn([`requestData`, path, method, `bodyValue`]) || null
})

export const activeExamplesMember = onlyOAS3((state, path, method, type, name) => {
  return state.getIn([`examples`, path, method, type, name]) || null
})

export const requestContentType = onlyOAS3((state, path, method) => {
  return state.getIn([`requestData`, path, method, `requestContentType`]) || null
})

export const responseContentType = onlyOAS3((state, path, method) => {
  return state.getIn([`requestData`, path, method, `responseContentType`]) || null
})

export const serverVariableValue = onlyOAS3((state, locationData, key) => {
  let path

  // locationData may take one of two forms, for backwards compatibility
  // Object: ({server, namespace}) or String:server
  if(typeof locationData !== `string`) {
    const { server, namespace } = locationData
    if(namespace) {
      path = [namespace, `serverVariableValues`, server, key]
    } else {
      path = [`serverVariableValues`, server, key]
    }
  } else {
    const server = locationData
    path = [`serverVariableValues`, server, key]
  }

  return state.getIn(path) || null
})

export const serverVariables = onlyOAS3((state, locationData) => {
  let path

  // locationData may take one of two forms, for backwards compatibility
  // Object: ({server, namespace}) or String:server
  if(typeof locationData !== `string`) {
    const { server, namespace } = locationData
    if(namespace) {
      path = [namespace, `serverVariableValues`, server]
    } else {
      path = [`serverVariableValues`, server]
    }
  } else {
    const server = locationData
    path = [`serverVariableValues`, server]
  }

  return state.getIn(path) || OrderedMap()
})

export const serverEffectiveValue = onlyOAS3((state, locationData) => {
  var varValues, serverValue

  // locationData may take one of two forms, for backwards compatibility
  // Object: ({server, namespace}) or String:server
  if(typeof locationData !== `string`) {
    const { server, namespace } = locationData
    serverValue = server
    if(namespace) {
      varValues = state.getIn([namespace, `serverVariableValues`, serverValue])
    } else {
      varValues = state.getIn([`serverVariableValues`, serverValue])
    }
  } else {
    const server = locationData
    varValues = state.getIn([`serverVariableValues`, serverValue])
  }

  return str
})

});
newPromiseCapabilityModule.f = newPromiseCapability = function (C) {
    return C === $Promise || C === promise;
    this.resolve = ctx($resolve, promise, 1);
    this.reject = ctx($reject, promise, 1);
  };

onRejected);
    }
  });

OwnPromiseCapability = function () {
    var promise = new Internal();
    this.promise

Promise.prototype.catch(onRejected)
    'catch': function (onRejected) {
      return this.then(undefined,
    this._a.push(reaction);
    if (this._s) notify(this, false);
      return reaction.promise;
    },
    // 25.4.5.1
    reaction.domain = isNode ? process.domain : undefined;
      this._c.push(reaction);
    if (this._a)
      'function' ? onFulfilled : true;
      reaction.fail = typeof onRejected == 'function' && onRejected;

reaction = newPromiseCapability(speciesConstructor(this, $Promise));
      reaction.ok = typeof onFulfilled ==
25.4.5.3 Promise.prototype.then(onFulfilled, onRejected)
    then: function then(onFulfilled, onRejected) {
      var
    if (promise === value) throw TypeError("Promise can't be resolved itself");
    if (then = isThenable(value)) {

then;
  if (promise._d) return;
  promise._d = true;

promise = promise._w || promise; // unwrap
  try {
    if (promise.d || promise._a || promise._c)
      throw TypeError('Promise can’t be resolved itself');
      } else if (handler = global.onunhandledrejection) {
      handler({ promise: promise, reason: value });
    }
    if ((console = global.console) && console.error)
      console.error('Unhandled promise
      promise);
    } else if (handler = global.onrejectionhandled) {
      handler( { promise: promise, reason: promise.v } );
    }
    })

$reject = function (value) {
  var promise = this;
  if (promise._d) return;
  promise._d = true;

promise = promise._w || promise; // unwrap
  if (promise === promise._v)
    // unwrap
    promise._v = value;
    promise._s = 2;
  if (!promise.a || promise._a)
  promise._a = promise._c.slice();
  notify(promise, true);
    } var

$resolve = function (value) {
  var promise = this;
  var

result, handler, console;
    if (unhandled)
      'function' ? promise = perform(function () { return handler( { promise: promise, promise, promise } );
    } else if (handler = global.onunhandledrejection)
      handler( { promise: promise, reason: value } );
    }
    if (domain.exit(f) || exited) domain.exit();
    reject(e);
  }
    }

while (chain.length > i) run(chain[i++]); // variable length -
can't use forEach
    promise._c = 
[ ];
    promise._n = false;
    if (isReject && !promise._h)
      promise._h = isNode || isUnhandled(promise) ? 2 : 1;
    var

promise._h = 1;

promise = promise._w || promise; // unwrap
  if (promise === value) return value;
  if (isReject &
'}
B.2.3.6 String.prototype.fixed() 

```javascript
require('./_string-html')('fixed', function (createHTML) {
  return function fixed()
  {
    return createHTML(this, 'tt', '', '');
  };
});
```

B.2.3.7 String.prototype.fontcolor(color) 

```javascript
require('./_string-html')('fontcolor', function (createHTML) {
  return function fontcolor(color) {
    return createHTML(this, 'font', 'color', color);
  };
});
```

B.2.3.8 String.prototype.fontsize(size) 

```javascript
require('./_string-html')('fontsize', function (createHTML) {
  return function fontsize(size) {
    return createHTML(this, 'font', 'size', size);
  };
});
```

B.2.3.9 String.prototype.italics() 

```javascript
require('./_string-html')('italics', function (createHTML) {
  return function italics() {
    return createHTML(this, 'i', '', '');
  };
});
```

B.2.3.10 String.prototype.link(url) 

```javascript
require('./_string-html')('link', function (createHTML) {
  return function link(url) {
    return createHTML(this, 'a', 'href', url);
  };
});
```

B.2.3.11 String.prototype.small() 

```javascript
require('./_string-html')('small', function (createHTML) {
  return function small() {
    return createHTML(this, 'small', '', '');
  };
});
```

B.2.3.12 String.prototype.strike() 

```javascript
require('./_string-html')('strike', function (createHTML) {
  return function strike() {
    return createHTML(this, 'strike', '', '');
  };
});
```

B.2.3.13 String.prototype.sub() 

```javascript
require('./_string-html')('sub', function (createHTML) {
  return function sub() {
    return createHTML(this, 'sub', '', '');
  };
});
```

B.2.3.14 String.prototype.sup() 

```javascript
require('./_string-html')('sup', function (createHTML) {
  return function sup() {
    return createHTML(this, 'sup', '', '');
  };
});
```

B.2.3.15 String.prototype.match(regexp) 

```javascript
require('./_fix-re-wks')('match', 1, function (defined, MATCH, $match) {
  return [function match(regexp) {
    'use strict';
    var O = defined(this);
    var fn = regexp == undefined ? undefined : regexp[MATCH];
    return fn !== undefined ? fn.call(regexp, O) : new RegExp(regexp)[MATCH](String(O));
  }, $match];
});
```

B.2.3.16 String.prototype.replace(searchValue, replaceValue) 

```javascript
require('./_fix-re-wks')('replace', 2, function (defined, REPLACE, $replace) {
  return [function replace(searchValue, replaceValue) {
    'use strict';
    var O = defined(this);
    var fn = searchValue == undefined ? undefined : searchValue[REPLACE];
    return fn !== undefined ? fn.call(searchValue, O, replaceValue) : $replace.call(String(O), searchValue, replaceValue)(O, defined, MATCH, Smatch) {
      return [function match(regex) {
        'use strict';
        var O = defined(this);
        var fn = regexp == undefined ? undefined : regexp[MATCH](String(O));
        Smatch[an] = Smatch[an] || Smatch[an];
        Smatch[an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an][an]...
plugins: [
  ],

  // Initial state
  initialState: { },

  // Inline Plugin fn: { },

  components: { },

  let queryConfig = parseSearch();

  const domNode = opts.domNode || delete opts.domNode;

  const constructorConfig = deepExtend({}, defaults, opts, queryConfig);

  const storeConfigs = {
    system: {
      layout: {} // layout: constructorConfig.layout,
      filter: constructorConfig.filter
    },
    plugins: constructorConfig.presets,
    state: deepExtend({
      spec: "",
      url: constructorConfig.url
    }, constructorConfig.initialState)
  };

  if (constructorConfig.initialState) {
// if the user sets a key as `undefined`, that signals to us that we should delete the key entirely.

  // known usage: Swagger-Editor validate plugin tests
  for (var key in constructorConfig.initialState) {
    if (constructorConfig.initialState.hasOwnProperty(key)) {
      &
    }
  }

  let inlinePlugin = () => {
    return {
      fn: constructorConfig.fn,
      components: constructorConfig.components,
      state: constructorConfig.state,
    }
  }

  var store = new System(storeConfigs);
  store.register([constructorConfig.plugins, inlinePlugin]);

  var system = store.system();

  const downloadSpec = (fetchedConfig) => {
    return {
      fn: constructorConfig.fn,
      components: constructorConfig.components,
      state: constructorConfig.state,
    }
  }

  if (!configUrl || !system.specActions || !system.specActions.getConfigByUrl || (!configUrl && !system.specActions.getConfigByUrl({
    url: configUrl,
    loadRemoteConfig: true,
    requestInterceptor: constructorConfig.requestInterceptor,
    responseInterceptor: constructorConfig.responseInterceptor,
  }, downloadSpec))) {
    return downloadSpec();
  } else {
    system.specActions.getConfigByUrl(configUrl, downloadSpec);
  }

  return system;
names = gOPN(toObject(it));
var result = [];
var i = 0;
var key;
while (names.length > i) {
  if (!(has(AllSymbols, key = names[i++])))
    result.push(key);
} return result;
}

function getOwnPropertySymbols(it) {
  var IS_OP = it === ObjectProto;
  var names = gOPN(IS_OP ? OPSymbols : toIObject(it));
  var result = [];
  var i = 0;
  var key;
  while (names.length > i) {
    if (has(AllSymbols, key = names[i++]) && key != HIDDEN && key != META) result.push(key);
  } return result;

  $Symbol = function Symbol()
    { if (this instanceof $Symbol) throw TypeError('Symbol is not a constructor!');
    var tag = uid(arguments.length > 0 ? arguments[0] : undefined);
    var $set = function (value) {
      if (this === ObjectProto) $set.call(OPSymbols, value);
      if (has(this, HIDDEN) && has(this[HIDDEN], tag))
        throw TypeError('Illegal ' + (isSymbol(this[HIDDEN]) ? 'access to bound symbol \' + tag + '\') : 'use of undefined symbol \' + tag + '\');
    };
    if (DESCRIPTORS && !setter) setSymbolDesc(ObjectProto, tag, { configurable: true, set: $set });
    return wrap(tag);
  };

  redeclare($Symbol[PROTOTYPE], 'toString', function toString() {
    return this._k;
  });

  $GOPD.f = $getOwnPropertyDescriptor;
  $DP.f = $defineProperty;
  require('./_object-gopn').f = gOPNExt.f =
    $getOwnPropertyNames;
  require('./_object-pie').f = $propertyIsEnumerable;
  require('./_object-gops').f = $getOwnPropertySymbols;

  if (DESCRIPTORS && !require('./_library')) {
    redefine(ObjectProto, 'propertyIsEnumerable', $propertyIsEnumerable, true);
  }

  wksExt.f = function (name) {
    return has(SymbolRegistry, name += '')
      ? SymbolRegistry[name]
      : SymbolRegistry[name] = $Symbol(name);
  };

  symbolSet(AllSymbols, 
    (function (name) {
      if (isSymbol(name)) throw TypeError('Symbol is not a primitive or does not exist!', name);
    })
  );

  $export($export.S + $export.F * !USE_NATIVE, 
    'Object', {
      'propertyIsEnumerable': $propertyIsEnumerable, 
      'toStringTag': setToStringTag,
      'toPrimitive': $toPrimitive
    });
Generic getter from system.statePlugins

*type* getter = function *(name)* { return objReduce(this.system.statePlugins, (val, namespace) => { return { namespace: namespace, name: name, type: val } }); }

getSelectors() { return objMap(this.system.statePlugins, (namespace, selectors) => { return selectors[type]; }); }

getActions() { return objMap(this.system.statePlugins, (namespace, actions) => { return actions[type]; }); }

getWrappedAndBoundActions(dispatch) { return objMap(this.system.statePlugins, (namespace, actions) => { return actions[type]; }); }

getWrappedAndBoundSelectors(getState, getSystem) { return objMap(this.system.statePlugins, (namespace, selectors) => { return selectors[type]; }); }

getStates(state) { return Object.keys(this.system.statePlugins).reduce((obj, key) => { obj[key] = state.get(key); return obj; }, {}); }

getMapStateToProps() { return () => { return Object.assign({}, this.getSystem()); }; }

getMapDispatchToProps(extras) { return (dispatch) => { return deepExtend({}, this.getWrappedAndBoundActions(dispatch), this.getFn(), extras); }; }

getComponents(component) { const res = this.system.components[component]; if(Array.isArray(res)) { return res.reduce((ori, wrapper) => { return wrapper(ori, this.getSystem()); }); } if(typeof component !== "undefined") { return this.system.components[component]; } return this.system.components; }

getBoundSelectors(getState, getSystem) { return objMap(this.getSelectors(), (obj, key) => { let stateName = [key.slice(0, -9)]; const getNestedState = () => getState().getIn(stateName); return objMap(obj, (fn) => { return (...args) => { let res = wrapWithTryCatch(fn).apply(null, [getNestedState(), ...args]); if(typeof component !== "undefined") { return this.getComponents().getComponent(component, () => { return res; }); } return wrapWithTryCatch(fn).apply(null, [getNestedState(), ...args]); }); }); }
toolbox)
  }

  if(isArray(plugins)) {
    return plugins
    .map(plugin => combinePlugins(plugin, toolbox))
    .reduce(systemExtend, {})
  }

  return {}
}

function callAfterLoad(plugins, system, { hasLoaded } = {}) {
  let calledSomething = hasLoaded
  if(isObject(plugins) && !isArray(plugins)) {
    if(typeof plugins.afterLoad === "function") {
      calledSomething = true
      wrapWithTryCatch(plugins.afterLoad).call(this, system)
    }
  }

  if(isFunc(plugins))
    return callAfterLoad.call(this, plugins(system), system, { hasLoaded: calledSomething })

  if(isArray(plugins)) {
    return plugins.map(plugin => callAfterLoad.call(this, plugin, system, { hasLoaded: calledSomething }))
  }

  return {}
}

// Wraps deepExtend, to account for certain fields, being wrappers.
// We need to convert some fields into arrays, and append to them.
function systemExtend(dest={}, src={}) {
  if(!isObject(dest)) {
    return {}
  }

  if(!isObject(src)) {
    return dest
  }

  // Wrap components
  // Parses existing components in the system, and prepares them for wrapping via getComponents
  function getComponents(system) {
    return system
      .filter(plugin => plugin.wrapComponents)
      .reduce((components, plugin) => {
        if(plugin.wrapComponents) {
          return components
            .map(component => plugin.wrapComponents(component))
            .reduce((c, comp) => c.concat(comp), [])
        }

        return components
      }, [])
  }

  // Account for wrapActions, make it an array and append to it
  if(Object.keys(src.wrapComponents).length) {
    // only delete wrapComponents if we've matched all of our wrappers to components
    if(src.wrapActions) {
      return src
    }

    const namespaceObj = statePlugins[namespace]
    if(!isObject(namespaceObj)) {
      return {} // If the namespace is not defined, return an empty object
    }

    const namespaceComponents = namespaceObj.components
    if(!isArray(namespaceComponents)) {
      return namespaceObj
    }

    namespaceComponents = namespaceComponents.map(component => {
      if(isArray(component.wrapActions)) {
        return object.extend({}, component, { wrapActions: component.wrapActions })
      }

      return object.extend({}, component)
    })

    return namespaceObj
  }

  return object.extend({}, src, getComponents(src))
}

function buildReducer(states) {
  let reducerObj = object.map(states, (val) => val.reducers)
  return allReducers(reducerObj)
}

function allReducers(reducerSystem) {
  let reducers = Object.keys(reducerSystem).reduce((obj, key) => {
    obj[key] = makeReducer(reducerSystem[key])
    return obj
  }, {})

  if(!Object.keys(reducers).length) {
    return idFn
  }

  return combineReducers(reducers)
}

function makeReducer(reducerObj) {
  return (state = new Map(), action) => {
    if(!reducerObj)
      return state

    let redFn = (reducerObj[action.type])
    if(redFn) {
      const res = wrapWithTryCatch(redFn)(state, action)
      return res
    }
    return state
  }
}

function wrapWithTryCatch(fn, {
  logErrors = true
} = {}) {
  if(typeof fn !== "function") {
    return fn
  }

  return function(...args) {
    try {
      return fn(...args)
    } catch(e) {
      if(logErrors) {
        console.error(e)
      }
      return null
    }
  }
}

function configureStore(rootReducer, initialState, getSystem) {
  const store = createStoreWithMiddleware(rootReducer, initialState, getSystem)

  // if(module.hot) {
  //   // Enable Webpack hot module replacement for reducers
  //   module.hot.accept("reducers/index", () => {
  //     module.hot.accept("reducers/index")
  //   }),
  //   // store.replaceReducer(nextRootReducer, system, getSystem)
  //   store.replaceReducer(nextRootReducer, system, getSystem)
  //   // WEBPACK FOOTER
  //   /node_modules/core-js/library/fn/object/define-property.js
  //   var SObject = require("/node_modules/core-js/library/fn/object/define-property.js")
  //   if(module.hot) {
  //     // Enable Webpack hot module replacement for reducers
  //     module.hot.accept("reducers/index", () => {
  //       // nextRootReducer = require("reducers/index")
  //       // WEBPACK FOOTER
  //       // node_modules/core-js/library/fn/object/define-property.js
  //       module.id = 379
  //   }, "var $export =

  // WEBPACK FOOTER
  

instance of the Buffer class

if (that === null) { // new Buffer
  that = new Buffer(length)
} else { // common case
  that.length = length
} return that

* The Buffer constructor returns instances of Uint8Array that have their
  prototype changed to Buffer.prototype. Furthermore, `Buffer` is a subclass
  of Uint8Array, so the returned instances will have all the node `Buffer`
  methods and the Uint8Array methods. Square bracket notation works
  as expected -- it returns a single octet.

  if (typeof encodingOrOffset === 'string') { // throw new TypeError
    if (encoding is specified then the first
      argument must be a string
    )
  } return allocUnsafe(this, that)

* Buffer.prototype

  return that
}

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 * of Uint8Array, so the returned instances will have all the node `Buffer`
 * methods and the Uint8Array methods. Square bracket notation works
 * as expected -- it returns a single octet.

  * Buffer.prototype

  return that
}
null
mul

  return val
}

Buffer.prototype.readUIntBE = function readUIntBE (offset, byteLength, noAssert) {
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) {
    checkOffset(offset, byteLength,
    this.length)
  }

  var val = this[offset + --byteLength]
  var mul = 1
  while (byteLength > 0 && (mul *=
0x100)) {
    val += this[offset + --byteLength] * mul
  }

  return val
}

Buffer.prototype.readUInt8 = function readUInt8 (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 2, this.length)
  return this[offset]
}

Buffer.prototype.readUInt16LE = function readUInt16LE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 2, this.length)
  return this[offset] | (this[offset + 1] << 8)
}

Buffer.prototype.readUInt16BE = function readUInt16BE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 2, this.length)
  return (this[offset] << 8) | this[offset + 1]
}

Buffer.prototype.readUInt32LE = function readUInt32LE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)

  return
    ((this[offset] + (this[offset + 1] << 8) + (this[offset + 2] << 16) + (this[offset + 3] << 24))

  +0x10000000) : this
}

Buffer.prototype.readUInt32BE = function readUInt32BE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)

  return (this[offset] * 0x1000000) +
    ((this[offset + 1] << 16) |
    (this[offset + 2] << 8) |
    this[offset + 3])
}

Buffer.prototype.readIntLE = function readIntLE (offset,
byteLength, noAssert) {
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) {
    var maxBytes = Math.pow(2, 8 * byteLength) - 1
    checkInt(this, value,
    offset, byteLength, maxBytes, 0)
  }

  var val = 0
  while (++i < byteLength && (mul *=
0x100)) {
    val += this[offset + i] * mul
  }

  mul *= 0x80

  if (val >= mul) val -= Math.pow(2, 8 * byteLength)

  return val
}

Buffer.prototype.readIntBE = function readIntBE (offset, byteLength, noAssert) {
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) {
    var i = byteLength
    var mul = 1
    var val = this[offset + --i]
    while (i > 0 && (mul *=
0x100)) {
      val += this[offset + --i] * mul
    }

    mul *= 0x80
    if (val >= mul)
      val = Math.pow(2, 8 * byteLength)

  return val
}

Buffer.prototype.readInt8 = function readInt8 (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 1, this.length)

  if (!(this[offset] & 0x80)) return (this[offset])
  return ((0xff - this[offset] + 1) * -1)
}

Buffer.prototype.readInt16LE = function readInt16LE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 2, this.length)

  var val = this[offset] | (this[offset + 1] << 8)
  return (val & 0x8000) ? val |
    0xFFFF0000 : this
}

Buffer.prototype.readInt16BE = function readInt16BE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 2, this.length)

  var val = this[offset + 1] | (this[offset] << 8)
  return (val & 0x8000) ? val |
    0xFFFF0000 : this
}

Buffer.prototype.readInt32LE = function readInt32LE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)

  return (this[offset]) |
    (this[offset + 1] << 8) |
    (this[offset + 2] << 16)
    (this[offset + 3] << 24)
}

Buffer.prototype.readInt32BE = function readInt32BE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)

  return (this[offset] << 24) |
    (this[offset + 1] << 16) |
    (this[offset + 2] << 8) |
    this[offset + 3]
}

Buffer.prototype.readFloatLE = function readFloatLE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)

  return ieee754.read(this, offset, true, 23)
}

Buffer.prototype.readFloatBE = function readFloatBE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)

  return ieee754.read(this, offset, false, 23)
}

Buffer.prototype.readDoubleLE = function readDoubleLE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 8, this.length)

  return ieee754.read(this, offset, true, 52)
}

Buffer.prototype.readDoubleBE = function readDoubleBE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 8, this.length)

  return ieee754.read(this, offset, false, 52)
}

checkInt(buf, value, offset, ext, max, min) {
  if (!Buffer.isBuffer(buf)) throw new TypeError("buf must be a
Buffer instance")

  if (value > max || value < min) throw new RangeError("value out of bounds")

  if (offset + ext > buf.length) throw new RangeError("Index out of range")

  return writeUIntLE(value, offset, buf, ext, byteLength, maxBytes)
}

function checkBuffer(buf, value, offset, ext, byteLength, maxBytes) {
  if (value > max || value < min) throw new RangeError("value out of bounds")

  if (offset + ext > buf.length) throw new RangeError("Index out of range")

  return writeUIntLE(value, offset, buf, ext, byteLength, maxBytes)
}

function checkInt(buf, value, offset, ext, byteLength, maxBytes) {
  if (value > max || value < min) throw new RangeError("value out of bounds")

  if (offset + ext > buf.length) throw new RangeError("Index out of range")

  return writeUIntLE(value, offset, buf, ext, byteLength, maxBytes)
}
Math.pow(2, 8 * byteLength) - 1
var

checkInt(this, value, offset, byteLength, maxBytes, 0)

} \n var i = byteLength - 1
\n var mul = 1
\n this[offset + i] = value & 0xFF
\n while (i >= 0 && (mul *= 0x100)) { \n \n this[offset + i] = (value / mul) & 0xFF
\n return offset + byteLength
\n } \n
function writeUInt8 (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 1, 0xff, 0)
\n if (!(Buffer.TYPED_ARRAY_SUPPORT)) value = Math.floor(value)
\n this[offset] = (value & 0xff)
\n return offset + 1
} \n
function objectWriteUInt16 (buf, value, offset, littleEndian) { \n \n this[offset] = (value & 0xff)
\n this[offset + 1] = (value >>> 8)
\n return offset + 2
} \n
Buffer.prototype.writeUInt16LE = function writeUInt16LE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 2, 0xff, 0)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value & 0xff)
\n this[offset + 1] = (value >>> 8)
\n } \n
\n else { \n \n \n objectWriteUInt16(this, value, offset, true) \n \n } \n
return offset + 2
} \n
Buffer.prototype.writeUInt16BE = function writeUInt16BE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 2, 0xff, 0)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value & 0xff)
\n this[offset + 1] = (value >>> 8)
\n } \n
\n else { \n \n \n objectWriteUInt16(this, value, offset, false) \n \n } \n
return offset + 2
} \n
Buffer.prototype.writeUInt32LE = function writeUInt32LE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 4, 0xffffffff, 0)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value & 0xff)
\n this[offset + 1] = (value >>> 8)
\n this[offset + 2] = (value >>> 16)
\n this[offset + 3] = (value >>> 24)
\n } \n
\n else { \n \n \n objectWriteUInt32(this, value, offset, false) \n \n } \n
return offset + 4
} \n
Buffer.prototype.writeUInt32BE = function writeUInt32BE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 4, 0xffffffff, 0)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value >>> 24)
\n this[offset + 1] = (value >>> 16)
\n this[offset + 2] = (value >>> 8)
\n this[offset + 3] = (value & 0xff)
\n } \n
\n else { \n \n \n objectWriteUInt32(this, value, offset, true) \n \n } \n
return offset + 4
} \n
Buffer.prototype.writeInt8 = function writeInt8 (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 1, 0xff, -0x80)
\n if (!Buffer.TYPED_ARRAY_SUPPORT) value = Math.floor(value)
\n if (value < 0) value = 0xff + value + 1
\n \n this[offset] = (value & 0xff)
\n return offset + 1
} \n
Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 2, 0xff, 0)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value & 0xff)
\n this[offset + 1] = (value >>> 8)
\n } \n
\n else { \n \n \n objectWriteUInt16(this, value, offset, true) \n \n } \n
return offset + 2
} \n
Buffer.prototype.writeInt16BE = function writeInt16BE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 2, 0xff, 0)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value & 0xff)
\n this[offset + 1] = (value >>> 8)
\n } \n
\n else { \n \n \n objectWriteUInt16(this, value, offset, false) \n \n } \n
return offset + 2
} \n
Buffer.prototype.writeInt32LE = function writeInt32LE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 4, 0xffffffff, 0)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value & 0xff)
\n this[offset + 1] = (value >>> 8)
\n this[offset + 2] = (value >>> 16)
\n this[offset + 3] = (value >>> 24)
\n } \n
\n else { \n \n \n objectWriteUInt32(this, value, offset, true) \n \n } \n
return offset + 4
} \n
Buffer.prototype.writeInt32BE = function writeInt32BE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 4, 0xffffffff, 0)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value >>> 24)
\n this[offset + 1] = (value >>> 16)
\n this[offset + 2] = (value >>> 8)
\n this[offset + 3] = (value & 0xff)
\n } \n
\n else { \n \n \n objectWriteUInt32(this, value, offset, false) \n \n } \n
return offset + 4
} \n
Buffer.prototype.writeSign8 = function writeSign8 (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 1, 0x7f, -0x80)
\n if (!Buffer.TYPED_ARRAY_SUPPORT) value = Math.floor(value)
\n if (value < 0) value = 0xff + value + 1
\n \n this[offset] = (value & 0xff)
\n return offset + 1
} \n
Buffer.prototype.writeSign16LE = function writeSign16LE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 2, 0x7f, -0x80)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value & 0xff)
\n this[offset + 1] = (value >>> 8)
\n } \n
\n else { \n \n \n objectWriteUInt16(this, value, offset, true) \n \n } \n
return offset + 2
} \n
Buffer.prototype.writeSign16BE = function writeSign16BE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 2, 0x7f, -0x80)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value & 0xff)
\n this[offset + 1] = (value >>> 8)
\n } \n
\n else { \n \n \n objectWriteUInt16(this, value, offset, false) \n \n } \n
return offset + 2
} \n
Buffer.prototype.writeSign32LE = function writeSign32LE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 4, 0x7fffffff, -0x80000000)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value & 0xffffffff)
\n this[offset + 1] = (value >>> 8)
\n this[offset + 2] = (value >>> 16)
\n this[offset + 3] = (value >>> 24)
\n } \n
\n else { \n \n \n objectWriteUInt32(this, value, offset, true) \n \n } \n
return offset + 4
} \n
Buffer.prototype.writeSign32BE = function writeSign32BE (value, offset, noAssert) { \n \n value = +value
\n offset = offset | 0
\n if (!noAssert) checkInt(this, value, offset, 4, 0x7fffffff, -0x80000000)
\n if (Buffer.TYPED_ARRAY_SUPPORT) { \n \n this[offset] = (value & 0xffffffff)
\n this[offset + 1] = (value >>> 8)
\n this[offset + 2] = (value >>> 16)
\n this[offset + 3] = (value >>> 24)
\n } \n
\n else { \n \n \n objectWriteUInt32(this, value, offset, false) \n \n } \n
return offset + 4
}
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22379

characters like \n and \t from the string, base64-js does not

\n
str = stringtrim(str).replace(INVALID_BASE64_RE,"

function base64clean (str) {
  // Node strips out invalid

} else {

  this[offset] = (value & 0xff)
}

this[offset + 1] = (value >>> 8)
this[offset + 2] = (value >>> 16)

this[offset + 3] = (value >>> 24)
}

Buffer.prototype.writeInt32BE = function writeInt32BE (value, offset, noAssert) {
  \n  val = +value

  offset = offset || 0

  if (!noAssert) checkInt(this, value, offset, 4, 0xffffffff, -0x80000000)

  if (value < 0) value = 0xffffffff + value + 1

  if (Buffer.TYPED_ARRAY_SUPPORT) {
    \n    this[offset] = (value >>> 24)
    this[offset + 1] = (value >>> 16)
    this[offset + 2] = (value >>> 8)
    this[offset + 3] = (value & 0xff)

  } else {

    \n    objectWriteUint32(this, value, offset, true)

  } \n
  return offset + 4
}

function writeDouble (buf, value, offset, littleEndian, noAssert) {
  \n  if (!noAssert) {
    checkIEEE754(buf, value, offset, 8, 1.7976931348623157E+308, -1.7976931348623157E+308)
  }

  // ieee754.write(buf, value, offset, littleEndian, 23, 4)

  return writeDoubleLE(buf, value, offset, littleEndian, noAssert)
}


Buffer.prototype.writeDoubleLE = function writeDoubleLE (value, offset, noAssert) {
  \n  return writeDouble(this, value, offset, false, noAssert)
}

function writeFloat (buf, value, offset, littleEndian, noAssert) {
  \n  return writeFloatBE(buf, value, offset, noAssert)
}

Buffer.prototype.writeFloatBE = function writeFloatBE (value, offset, noAssert) {
  \n  return writeFloat(this, value, offset, false, noAssert)
}

function writeFloatLE (value, offset, noAssert) {
  \n  return writeFloat(this, value, offset, true, noAssert)
}


urlSchemeParseResults;\n  var sanitizedUrl = url.replace(\`ctrlCharactersRegex,\`);\n  \n  if (isRelativeUrl(sanitizedUrl)) {\n    return sanitizedUrl;\n  }\n  \n  url = urlSchemeParseResults[0];\n  \n  if (invalidProtocolRegex.test(url)) {\n    return 'about:blank';\n  }\n  \n  urlScheme = urlSchemeParseResults[0];\n  \n  return sanitizedUrl;\n}

module.exports = {\n  sanitizeUrl: sanitizeUrl\n};
objectToString(value) {
  return nativeObjectToString.call(value);
}

module.exports = objectToString;

var castSlice = require('./_castSlice'),
    hasUnicode = require('./_hasUnicode'),
    stringToArray = require('./_stringToArray'),
    toString = require('./toString');

/**
 * Creates a function like `_.lowerFirst`.
 *
 * @private
 * @param {string} methodName The name of the `String` case method to use.
 * @returns {Function} Returns the new case function.
 */
function createCaseFirst(methodName) {
  return function(string) {
    string = toString(string);

    var strSymbols = hasUnicode(string)
      ? stringToArray(string)
      : undefined;

    var chr = strSymbols[0] || string.charAt(0);

    var trailing = strSymbols
      ? castSlice(strSymbols, 1).join('')
      : string.slice(1);

    return chr[methodName]() + trailing;
  };
}

module.exports = createCaseFirst;

var baseSlice = require('./_baseSlice');

/**
 * Casts an array to a slice if it's needed.
 *
 * @private
 * @param {Array} array The array to inspect.
 * @param {number} start The start position.
 * @param {number} [end=undefined] The end position.
 * @returns {Array} Returns the cast slice.
 */
function castSlice(array, start, end) {
  var length = array.length;

  end = end === undefined ? length : end;

  return (!start && end >= length) ? array : baseSlice(array, start, end);
}

module.exports = castSlice;

var asciiToArray = require('./_asciiToArray'),
    hasUnicode = require('./_hasUnicode'),
    unicodeToArray = require('./_unicodeToArray');

/**
 * Converts an ASCII `string` to an array.
 *
 * @private
 * @param {string} string The string to convert.
 * @returns {Array} Returns the converted array.
 */
function stringToArray(string) {
  return hasUnicode(string)
    ? unicodeToArray(string)
    : asciiToArray(string);
}

module.exports = stringToArray;

var asciiToArray = string.split('');

module.exports = asciiToArray;

var rsAstralRange = '\ud800-\udfff',
    rsComboMarksRange = '\u0300-\u036f',
    reComboHalfMarksRange = '\ufe20-\ufe2f',
    rsComboSymbolsRange = '\u20d0-\u20ff',
    rsComboRange = rsComboMarksRange + reComboHalfMarksRange + rsComboSymbolsRange,
    rsVarRange = '\ufe0e\ufe0f';

/** Used to compose unicode capture groups. */
var rsApos = '\\[' + rsAstral + '\u2019\]";

/** Used to match apostrophes. */
var reApos = RegExp(rsApos, 'g');

/**
 * Creates a function like `_.camelCase`.
 *
 * @private
 * @param {Function} callback The function to combine each word.
 * @returns {Function} Returns the new compounder function.
 */
function createCompounder(callback) {
  return function(string) {
    return arrayReduce(words(deburr(string).replace(reApos, '')), callback, '');
  };
}

module.exports = createCompounder;

var rsCommaMarkRange = '\u0301-\u0308',
    rsCommaMarksRange = '\u00c2-\u00c9',
    rsRegional = '(?:\ud83c\uddf6-\uddff)\ud83c\uddf2-\u200d',
    rsSurrPair = '\u200c\u200d\u200e\u200f\ufe00-\ufe0f';

/** Used to compose unicode capture groups. */
var rsAstral = '[' + rsAstralRange + ']',
    rsCombo = '[' + rsComboRange + ']',
    rsFitz = '\ud83c\u20d0-\ud83d\u20cf',
    rsModifier = '(?:' + rsCombo + '|' + rsFitz + ')',
    rsNonAstral = '[' + rsAstralRange + ']',
    rsRegional = '(?:\ud83c\uddf6-\uddff)\ud83c\uddf2-\u200d',
    rsSurrPair = '\u200c\u200d\ufe00-\ufe0f';

/** Used to match 

var reUnicode = RegExp(rsFitz + '(?=' + rsFitz + ')', 'g');

/**
 * Converts a Unicode string to an array.
 *
 * @private
 * @param {string} string The string to convert.
 * @returns {Array} Returns the converted array.
 */
function unicodeToArray(string) {
  return string.match(reUnicode) || [];
The base implementation of `_.propertyOf` without support for deep paths.

```javascript

function deburr(string) {
  string = toString(string);
  return string && string.replace(reLatin, deburrLetter).replace(reComboMark, '');
}

module.exports = deburr;


// WEBPACK FOOTER
// ./node_modules/lodash/deburr.js
// module id = 405
// module chunks = 0

var basePropertyOf = createCompounder(basePropertyOf, deburrLetter).replace(reComboMark, '');

module.exports = createCompounder(basePropertyOf, deburrLetter).replace(reComboMark, '');


// WEBPACK FOOTER
// ./node_modules/lodash/createCompounder.js
// module id = 404
// module chunks = 0

var deburrLetter = require('_/deburrLetter');

function deburr(string) {
  string = toString(string);
  return string && string.replace(reLatin, deburrLetter).replace(reComboMark, '');
}

module.exports = deburr;


@param {Object} object The object to query.

*An function basePropertyOf(object) { return function(key) { return object == null ? undefined : object[key]; }; }

module.exports = basePropertyOf;


//////////////////
// WEBPACK FOOTER


```javascript
var asciiWords = require('./_asciiWords'),
    hasUnicodeWord = require('./_hasUnicodeWord'),
    toString = require('./toString'),

unicodeWords = require('./_unicodeWords');

/**
 * Splits `string` into an array of its words.
 *
 * @static
 * @memberOf _
 * @since 3.0.0
 * @category String
 * @param {string} [string=''] The string to inspect.
 *
 * @param {RegExp|string} [pattern] The pattern to match words.
 * @param- {Object} [guard] Enables use as an iteratee for methods like `_.map`.
 * @returns {Array} Returns the words of `string`.
 * @example
 *
 *_.words('fred, barney, & pebbles');
 * // => ['fred', 'barney', 'pebbles']
 *
 *_.words('fred, barney, & pebbles', /[^,]+/g);
 * // => ['fred', 'barney', '&', 'pebbles']
 */
function words(string, pattern, guard) {
  string = toString(string);
  pattern = guard ? undefined : pattern;

  if (pattern === undefined) {
    return hasUnicodeWord(string) ? unicodeWords(string) : asciiWords(string);
  }
  return string.match(pattern) || [];
}

module.exports = words;


//////////////////
// WEBPACK FOOTER

```
rsEmoji = '(?::+ [rsDingbat, rsRegional, rsSurroundPair].join('')) + */ + rsSeq');

/**
 * Used to match complex or compound words.
 * @private
 * @param {string} The string to inspect.
 * @returns {Array} Returns the words of `string`.
 */
function unicodeWords(string) {
  return string.match(reUnicodeWord) || [];
}

module.exports = unicodeWords;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_unicodeWords.js
// module id = 411
// module chunks = 0","var Hash = require('./_Hash'),
    ListCache = require('./_ListCache'),
    Map = require('./_Map');

/**
 * Removes all key-value entries from the map.
 * @private
 * @param {Array} entries The key-value pairs to cache.
 * @returns {null} Returns the modified map.
 */
function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new (Map || ListCache),
    'string': new Hash
  };
}

module.exports = mapCacheClear;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_mapCacheClear.js
// module id = 412
// module chunks = 0","var hashClear = require('./_hashClear'),
    hashDelete = require('./_hashDelete'),
    hashGet = require('./_hashGet'),
    hashHas = require('./_hashHas'),
    hashSet = require('./_hashSet');

/**
 * Creates a hash object.
 * @constructor
 * @param {Array} [entries] The key-value pairs to cache.
 */
function Hash(entries) {
  var index = -1,
      length = entries == null ? 0 : entries.length;

  this.clear();
  while (++index < length) {
    var entry = entries[index];
    this.set(entry[0], entry[1]);
  }
}

// Add methods to `Hash`.
Hash.prototype.clear = hashClear;
Hash.prototype['delete'] = hashDelete;
Hash.prototype.get = hashGet;
Hash.prototype.has = hashHas;
Hash.prototype.set = hashSet;

module.exports = Hash;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_Hash.js
// module id = 413
// module chunks = 0","var coreJsData = require('./_coreJsData');

/**
 * Used to detect methods masquerading as native.
 * @private
 * @returns {Function} Returns the new function.
 */
function isFunction(func) {
  return isMasked(func) || func == Object.prototype.hasOwnProperty.call(Symbol.prototype, 'toStringTag')
    ? func
    : Function.isFunction(func);
}

module.exports = isFunction;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_isFunction.js
// module id = 414
// module chunks = 0","var coreJsData = require('./_coreJsData');

/**
 * Used to check objects for own properties.
 * @private
 * @returns {null} Returns the new property.
 */
function hasOwnProperty(object, key) {
  return object != null && hasOwnProperty.call(object, key);
}

module.exports = hasOwnProperty;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_hasOwnProperty.js
// module id = 415
// module chunks = 0","var key = require('./_key');

/**
 * Strips a Unicode `string` into an array of its words.
 * @private
 * @returns {Array} Returns the words of `string`.
 */
function tokenize(string) {
  return string.match(reUnicodeWord) || [];
}

module.exports = tokenize;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_tokenize.js
// module id = 416
// module chunks = 0","var isObject = require('./_isObject');

/**
 * Utility method for detecting arrays and objects.
 * @private
 * @returns {null} Returns the new collection.
 */
function isArrayLike(collection) {
  return isObject(collection) && ICollection(collection);
}

module.exports = isArrayLike;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_isArrayLike.js
// module id = 417
// module chunks = 0","var coreJsData = require('./_coreJsData');

/**
 * Tests a value to determine if it is an array-like object.
 * @private
 * @returns {null} Returns the new collection.
 */
function isLength(value) {
  return value != null & isNumber(value); // 0 & 1.1943e-15 & Number Limit
}

module.exports = isLength;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_isLength.js
// module id = 418
// module chunks = 0"
function listCacheGet(key) {
  var data = this.__data__,
  index = assocIndexOf(data, key);

  return index < 0 ? undefined : data[index][1];
}

module.exports = listCacheGet;


function listCacheHas(key) {
  return assocIndexOf(this.__data__, key) > -1;
}

module.exports = listCacheHas;


function listCacheSet(key, value) {
  var data = this.__data__,
      index = assocIndexOf(data, key);

  if (index < 0) {
    ++this.size;
    data.push([key, value]);
  } else {
    data[index][1] = value;
  }
  return this;
}

module.exports = listCacheSet;


function mapCacheDelete(key) {
  var result = getMapData(this, key)['delete'](key);
  this.size -= result ? 1 : 0;
  return result;
}

module.exports = mapCacheDelete;


function mapCacheGet(key) {
  return getMapData(this, key).get(key);
}

module.exports = mapCacheGet;


function mapCacheHas(key) {
  return getMapData(this, key).has(key);
}

module.exports = mapCacheHas;


function mapCacheSet(key, value) {
  var data = getMapData(this, key),
      size = data.size;

  data.set(key, value);
  this.size += data.size == size ? 0 : 1;
  return this;
}

module.exports = mapCacheSet;


var createFind = require('./_createFind'),
    findIndex = require('./findIndex');

function _findIndex(collection, predicate, fromIndex) {
  return collection ?
    collection.length > 0 ?
      findIndex(collection, predicate, fromIndex) :
      undefined
  : undefined;
}

function _indexOf(collection, value, fromIndex) {
  return collection ?
    collection.length > 0 ?
      collection.indexOf(value, fromIndex) :
      undefined
  : undefined;
}

function _rest(rest, key) {
  var length = arguments.length;
  return length == 1 ?
    rest[0] :
    rest;
}

function _toSource(object) {
  var source = object && object.constructor;
  return source ?
    source.name + ':' +
    source === Object ?
      object :
    source :
    'function';
}

/*global*/
function assocIndexOf(data, key) {
  return data ?
    data.indexOf(key) >= 0 :
    undefined;
}

function createMapCache(keyValue) {
  var data = [
    []
  ];

  function getMapData(map, key, get) {
    var length = arguments.length;
    return length == 1 ?
      get ?
        get(getMapData(map, key)) :
      undefined
    :
      getMapData(map, key, get);
  }

  function MapCache(keyValue) {
    this.__data__ = getMapData([], key Vale);this.size = 0;
  }

  MapCache.prototype = {
    get: function get(key) {
      return getMapData(this, key).get(key);
    },

    has: function has(key) {
      return getMapData(this, key).has(key);
    },

    set: function set(key, value) {
      getMapData(this, key, function cacheGet(key) { return this.__data__; })[-1];
      return 1;
    },

    delete: function delete(key) {
      var data = getMapData(this, key);
      return data['delete'](key) ?
        this.size -= 1 :
        undefined;
    },

    keys: function keys() {
      return getMapData(this, key).keys();
    },

    values: function values() {
      return getMapData(this, key).values();
    },

    entries: function entries() {
      return getMapData(this, key).entries();
    },

    size: function size() {
      return getMapData(this, key).size();
    }
  }

  return MapCache(keyValue);
}

module.exports = createMapCache;


// WEBPACK FOOTER
// ./node_modules/lodash/_mapCacheDelete.js
// module id = 428
// module chunks = 0

/**
 * Checks if `value` is suitable for use as unique object key.
 *
 * @private
 * @name isKeyable
 * @memberOf _
 * @param {*} value
 * @returns {boolean}
 */
function isKeyable(value) {
  var type = typeof value;
  return (type == 'string' || type == 'number' || type == 'symbol' || type == 'boolean')
    ? (value !== '__proto__')
    : (value === null);
}

module.exports = isKeyable;


// WEBPACK FOOTER
// ./node_modules/lodash/_isKeyable.js
// module id = 429
// module chunks = 0


value.
*/
return o.age < 40; });

return o.age < 40; });

var findIndexFunc = require('./_baseFindIndex'),
    keys = require('./keys');

function createFind(findIndexFunc) {
  return function(collection, predicate, fromIndex) {
    var iterable = Object(collection);
    if (!isArrayLike(collection)) {
      var iteratee = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) { return iteratee(iterable[key], key, iterable); }
    }
    var index = findIndexFunc(collection, predicate, fromIndex);
  };
}

module.exports = createFind;

function baseMatches(source) {
  var matchData = getMatchData(source);
  if (matchData.length == 1 && matchData[0][2]) {
    return matchesStrictComparable(matchData[0][0], matchData[0][1]);
  }
  return function(object) {
    return object === source || baseIsMatch(object, source, matchData);
  };
}

module.exports = baseMatches;

function stackClear() {
  this.__data__ = new ListCache;
  this.size = 0;
}

module.exports = stackClear;

function stackDelete(key) {
  var data = this.__data__,
      result = data['delete'](key);

  this.size = data.size;
  return result;
}

module.exports = stackDelete;

谘询您的问题，是否有其他需要我帮忙解答的事项？
var ListCache = require('./_ListCache'),
    Map = require('./_Map'),
    MapCache = require('./_MapCache');

/**
 * Used as the size to enable large array optimizations. */
var LARGE_ARRAY_SIZE = 200;

/**
 * Sets the stack `key` to `value`.
 *
 * @private
 * @name set
 * @memberOf Stack
 * @param {string} key The key of the value to set.
 * @param {*} value The value to set.
 * @returns {Object} Returns the stack cache instance.
 */
function stackSet(key, value) {
  var data = this.__data__;
  if (data instanceof ListCache) {
    var pairs = data.__data__;
    if (!Map || (pairs.length < LARGE_ARRAY_SIZE - 1)) {
      pairs.push([key, value]);
      this.size = ++data.size;
      return this;
    }
    data = this.__data__ = new MapCache(pairs);
  }
  data.set(key, value);
  this.size = data.size;
  return this;
}

module.exports = stackSet;
require('./_setCacheHas');

/**
 * Creates an array cache object to store unique values.
 */
@constructor
* @param {Array} values The values to cache.
* function SetCache(values) {
  var index = -1,
  length = values == null ? 0 : values.length;
  this.__data__ = new MapCache;
  while (++index < length){
    this.add(values[index]);
  }
}

// Add methods to 'SetCache'.
SetCache.prototype.add =
    SetCache.prototype.push = setCacheAdd;
SetCache.prototype.has = setCacheHas;

module.exports =
    SetCache;

/index_modules/lodash/_SetCache.js

ظاهرة الوضوح

//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_SetCache.js
// module id = 443
// module chunks = 0

/**
 * Adds `value` to the array cache.
 */
function setCacheAdd(value) {
  this.__data__.set(value, HASH_UNDEFINED);
  return this;
}

module.exports = setCacheAdd;

//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_setCacheAdd.js
// module id = 444
// module chunks = 0

/**
 * Checks if `value` is in the array cache.
 */
function setCacheHas(value) {
  return this.__data__.has(value);
}

module.exports = setCacheHas;

//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_setCacheHas.js
// module id = 445
// module chunks = 0

var Symbol = require('./_Symbol'),
    Uint8Array = require('./_Uint8Array'),
    eq = require('./eq'),
    equalArrays = require('./_equalArrays'),
    mapToArray = require('./_mapToArray'),
    setToArray = require('./_setToArray');

/**
 * A specialized version of `baseIsEqualDeep` for comparing objects of
 * the same `toStringTag`.
 */
function equalByTag(object, other, tag, bitmask, customizer, equalFunc, stack) {
  switch (tag) {
    case dataViewTag:
      if ((object.byteLength != other.byteLength) ||
          (object.byteOffset != other.byteOffset)) {
        return false;
      }
      object = object.buffer;
      other = other.buffer;

    case arrayBufferTag:
      if ((object.byteLength != other.byteLength) ||
          !equalFunc(new Uint8Array(object), new Uint8Array(other))) {
        return false;
      }
      return true;

    case boolTag:
    case dateTag:
    case numberTag:
      // Coerce booleans to `1` or `0` and dates to milliseconds.
      // Invalid dates are coerced to `NaN`.
      return eq(+object, +other);

    case errorTag:
      return object.name == other.name && object.message == other.message;

    case regexpTag:
    case stringTag:
      // Coerce regexes to strings and treat strings, primitives and objects,
      // as equal. See http://www.ecma-international.org/ecma-262/7.0/#sec-regexp.prototype.toString
      // for more details.
      return object == (other + '');

    case mapTag:
      var convert = mapToArray;

    case setTag:
      var isPartial = bitmask & COMPARE_PARTIAL_FLAG;
      convert || (convert = setToArray);

      if (object.size !=


function compare(o1, o2) {
  return equalByTag(o1, o2, COMPARE_UNORDERED_FLAG);
}

function equalByTag(object, other, bitmask, customizer, equalFunc, stack) {
  var result = equalArrays(convert(object), convert(other), bitmask, customizer, equalFunc, stack);
  if (result !== false) {
    return result;
  }
  return symbolValueOf(object) === symbolValueOf(other) || result;
}

module.exports = equalByTag;

module.exports = mapToArray;

module.exports = setToArray;

var getAllKeys = require('./_getAllKeys');

/** Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * A specialized version of `_.isEqual` for objects with support for
 * partial deep comparisons.
 *
 * @private
 * @param {Object} object The object to compare.
 * @param {Object} other The other object to compare.
 * @param {number} bitmask The bitmask flags. See `baseIsEqual` for more details.
 * @param {Function} customizer The function to customize comparisons.
 * @param {Function} equalFunc The function to determine equivalents of values.
 * @param {Object} stack Tracks traversed `object` and `other` objects.
 * @returns {boolean} Returns `true` if the objects are equivalent, else `false`.
 */
function equalObjects(object, other, bitmask, customizer, equalFunc, stack) {
  var isPartial = bitmask & COMPARE_PARTIAL_FLAG,
      objProps = getAllKeys(object),
      objLength = objProps.length,
      othProps = getAllKeys(other),
      othLength = othProps.length,
      var result = true;
  while (index < objLength) {
    var key = keyOf.call(object, key);
    if (!!(isPartial ?
      customizer(othValue, objValue, key, other, object, stack) ||
      equalFunc(objValue, othValue, bitmask, customizer, stack))) {
      result = false;
      break;
    }
  }
  return result;
}

module.exports = equalObjects;

module.exports = arrayFilter;

function arrayFilter(array, predicate) {
  var index = -1,
      length = array ==

var array = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9];
var result = [];

for (var index = 0; index < array.length; index++) {
  if (array[index] % 2 === 0) {
    result.push(array[index]);
  }
}

console.log(result);
A specialized version of `_memoize` which clears the memoized function's cache when it exceeds `MAX_MEMOIZE_SIZE`.

```javascript
/**
 * A specialized version of `_.memoize` which clears the memoized function's
 * cache when it exceeds `MAX_MEMOIZE_SIZE`.
 *
 * @private
 * @param {Function} func The function to have its output memoized.
 * @returns {Function} Returns the new memoized function.
 */
function memoizeCapped(func) {
  var result = memoize(func, function(key) {
    if (cache.size === MAX_MEMOIZE_SIZE) {
      cache.clear();
    }
    return key;
  });

  var cache = result.cache;
  return result;
}

module.exports = memoizeCapped;
```

```javascript
/**
 * Checks if `path` is a direct or inherited property of object.
 *
 * @memberOf _
 * @since 4.0.0
 * @category Object
 * @param {Object} object The object to query.
 * @param {Array|string} path The path to check.
 * @returns {boolean} Returns `true` if `path` exists, else `false`.
 */
function hasIn(object, path) {
  return object != null && hasPath(object, path, baseHasIn);
}

module.exports = hasIn;
```

```javascript
/**
 * The base implementation of `_.hasIn` without support for deep paths.
 *
 * @private
 * @param {Object} object The object to query.
 * @param {Array|string} path The path to check.
 * @param {Function} hasFunc The function to check properties.
 * @returns {boolean} Returns `true` if `path` exists, else `false`.
 */
function hasPath(object, path, hasFunc) {
  path = castPath(path, object);

  var index = -1,
      length = path.length,
      result = false;

  while (++index < length) {
    var key = toKey(path[index]);
    if (!(result = object != null && hasFunc(object, key))) {
      break;
    }
    object = object[key];
  }
  return result || ++index != length;
}

module.exports = hasPath;
```

```javascript
/**
 * Creates a function that returns the value at `path` of a given object.
 *
 * @static
 * @memberOf _
 * @since 2.4.0
 * @category Util
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 * @example
 * var objects = [
 *   { 'a': { 'b': 2 } },
 *   { 'a': { 'b': 1 } }
 * ];
 *
 * _.map(objects, _.property('a.b'));
 * // => [2, 1]
 *
 * _.map(_.sortBy(objects, _.property(['a', 'b'])), 'a.b');
 * // => [1, 2]
 */
function property(path) {
  return isKey(path) ? baseProperty(toKey(path)) : basePropertyDeep(path);
}

module.exports = property;
```

```javascript
/**
 * The base implementation of `_.property` without support for deep paths.
 *
 * @private
 * @param {string} key The key of the property to get.
 * @returns {Function} Returns the new accessor function.
 */
function baseProperty(key) {
  return function(object) {
    return object == null ? undefined : object[key];
  };
}

module.exports = baseProperty;
```

```javascript
/**
 * A specialized version of `_.property` which supports deep paths.
 *
 * @private
 * @param {string} key The key of the property to get.
 * @returns {Function} Returns the new accessor function.
 */
function basePropertyDeep(key) {
  return basePropertyDeepPath(path);
}

module.exports = basePropertyDeep;
```
an iteratee for methods like `_.map`.\n@returns {boolean} Returns `true` if any element passes the predicate
check.\n\n\n```javascript
\n\n```
cleanUpNextTick() {
  if (!draining || !currentQueue) {
    return;
  }
  draining = false;
  if (currentQueue.length) {
    queue = currentQueue.concat(queue);
  } else {
    queueIndex = -1;
  }
  if (queue.length) {
    drainQueue();
  }
}

function drainQueue() {
  if (draining) {
    return;
  }
  var timeout = runTimeout(cleanUpNextTick);
  draining = true;
  var len = queue.length;
  if (queue.length === 1) {
    // v8 likes predictable objects
    queue = function (fun) {
      return fun;
    };
  }
  var len = queue.length;
  var currentQueue = null;
  draining = false;
  runClearTimeout(timeout);

  while (queue.length) {
    currentQueue = queue;
    queue = [];
    while (++queueIndex < len) {
      currentQueue[queueIndex].run();
    }
  }
  currentQueue = null;
  draining = false;
  runClearTimeout(timeout);
}

process.nextTick = function (fun) {
  var args = new Array(arguments.length - 1);
  if (arguments.length > 1) {
    for (var i = 1; i < arguments.length; i++) {
      args[i - 1] = arguments[i];
    }
  }
  queue.push(new Item(fun, args));
  if (queue.length === 1 && !draining) {
    runTimeout(drainQueue);
  }
};

Item.prototype.run = function () {
  this.fun.apply(null, this.array);
};

process.title = 'browser';
process.browser = true;
process.env = {};
process.argv = [];
process.version = ''; // empty string to avoid regexp issues

function noop() {}

process.on = noop;
process.addListener = noop;
process.once = noop;
process.off = noop;
process.removeListener = noop;
process.removeAllListeners = noop;
process.emit = noop;
process.prependListener = noop;
process.prependOnceListener = noop;
process.listeners = function () { return [] }

process.binding = function (name) {
  throw new Error('process.binding is not supported');
};

process.umask = function() { return 0; }


import BasePreset from "./base"
import OAS3Plugin from "../plugins/oas3"

// Just the base, for now.

export default function PresetApis() {
  return [
    BasePreset,
    OAS3Plugin
  ];
}

import err from "core/plugins/err"
import layout from "core/plugins/layout"
import spec from "core/plugins/spec"
import view from "core/plugins/view"
import samples from "core/plugins/samples"
import logs from "core/plugins/logs"
import swaggerJs from "core/plugins/swagger-js"
import auth from "core/plugins/auth"
import util from "core/plugins/util"
import downloadUrlPlugin from "core/plugins/download-url"
import configsPlugin from "core/plugins/configs"
import deepLinkingPlugin from "core/plugins/deep-linking"
import filter from "core/plugins/filter"
import onComplete from "core/plugins/on-complete"
import OperationContainer from "core/containers/OperationContainer"
import App from "core/components/app"
import AuthorizationPopup from "core/components/auth/authorization-popup"
import AuthorizeBtn from "core/components/auth/authorize-btn"
import AuthorizeOperationBtn from "core/components/auth/authorize-operation-btn"
import Auths from "core/components/auth/auths"
import AuthItem from "core/components/auth/auth-item"
import AuthError from "core/components/auth/error"
import ApiKeyAuth from "core/components/auth/api-key-auth"
import BasicAuth from "core/components/auth/basic-auth"
import Example from "core/components/example"
import ExamplesSelect from "core/components/examples/examples-select"
configsPlugin,
    util,
    logs,
    view,
    spec,
    err,
    layout,
    samples,
    coreComponents,
    formComponents,
    swaggerJs,
    jsonSchemaComponents,
    auth,
    downloadUrlPlugin,
    filter,
    onComplete
  ]
}

// WEBPACK FOOTER //
// module id = 491
// module chunks = 0

```javascript
function reduce(collection, iteratee, accumulator) {
  var func = isArray(collection) ? arrayReduce : baseReduce,
      initAccum = arguments.length < 3;

  return func(collection, baseIteratee(iteratee, 4),
              accumulator, initAccum, baseEach);
}

module.exports = reduce;
```

```javascript
// WEBPACK FOOTER //
// module id = 492
// module chunks = 0

module.exports = { "default": require("core-js/library/fn/array/from"), __esModule: true };

```

```javascript
require('../../modules/es6.string.iterator');
require('../../modules/es6.array.from');
module.exports = require('../../modules/_core').Array.from;

```

```javascript
'use strict';
var ctx = require('./_ctx');
var $export = require('./_export');
var toObject = require('./_to-object');
var call = require('./_iter-call');
var isArrayIter = require('./_is-array-iter');
var toLength = require('./_to-length');
var createProperty = require('./_create-property');
var getIterFn = require('./core.get-iterator-method');

$export($export.S + $export.F * !require('./_iter-detect')(function (iter) { Array.from(iter); }), 'Array', {
  // 22.1.2.1 Array.from(arrayLike, mapfn = undefined, thisArg = undefined)
  from: function from(arrayLike /* , mapfn = undefined, thisArg = undefined */) {
    var O = toObject(arrayLike);
    var C = typeof this == 'function' ? this : Array;
    var aLen = arguments.length;
    var iterator = arrayLike === undefined ? iterableToArraySlice(arrayLike) : arrayLike
      , ctx = call(mapfn, thisArg, arguments, 1)
      , O = toObject(O);
    var i = 0, l, returnThis = ctx.length === undefined,
    result = mapfn ? createProperty(result, i, ctx[i]) : result[i];
    while (l = iterator.next(), !l.done) {
      if (returnThis) ctx = ctx.call(arrayLike, O, i);
      else result[i] = l.value;
      i++;}
    return i || returnThis ? result : i;
  }
```
toLength(O.length);`\nfor (result = new C(length); length > index; index++) {`\ncreateProperty(result, index,`\nmapping ? mapfn(O[index], index) : O[index]);`\n`\nresult.length = index;`\nreturn result;`\n`\n};`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n`\n``
(Array.isArray(valueNode)) {
  for (index = 0, quantity = valueNode.length; index < quantity; index += 1) {
    mergeMappings(state, _result, valueNode[index], overridableKeys);
  } else {
    mergeMappings(state, _result, valueNode, overridableKeys);
  }
}

function readLineBreak(state) {
  var ch;

  ch = state.input.charCodeAt(state.position);

  if (ch === 0x0A/* LF */) {
    state.position++;
  } else if (ch === 0x0D/* CR */) {
    state.position++;
    if (state.input.charCodeAt(state.position) === 0x0A/* LF */) {
      state.position++;
    }
  } else {
    throwError(state, 'a line break is expected');
  }

  state.line += 1;
  state.lineStart = state.position;
}

function skipSeparationSpace(state, allowComments, checkIndent) {
  var lineBreaks = 0,
      ch = state.input.charCodeAt(state.position);

  while (ch !== 0) {
    while (is_WHITE_SPACE(ch)) {
      ch = state.input.charCodeAt(++state.position);
    }

    if (allowComments && ch === 0x23/* # */) {
      do {
        ch = state.input.charCodeAt(++state.position);
      } while (ch !== 0x0A/* LF */ && ch !== 0x0D/* CR */ && ch !== 0);
    }

    if (is_EOL(ch)) {
      readLineBreak(state);

      ch = state.input.charCodeAt(state.position);
      lineBreaks++;
      state.lineIndent = 0;
      while (ch === 0x20/* Space */) {
        state.lineIndent++;
        ch = state.input.charCodeAt(state.position);
      }
    } else {
      break;
    }
  }

  if (checkIndent !== -1 && lineBreaks !== 0 && state.lineIndent < checkIndent) {
    throwError(state, 'deficient indentation');
  }

  return lineBreaks;
}

function testDocumentSeparator(state) {
  var _position = state.position,
      ch;

  ch = state.input.charCodeAt(_position);

  // Condition state.position === state.lineStart is tested // in parent on each
call, for efficiency. No needs to test here again.
  if ((ch === 0x2D/* - */ || ch === 0x2E/* . */) &&
      ch === state.input.charCodeAt(_position + 1) &&
      ch === state.input.charCodeAt(_position + 2)) {

    _position += 3;

    ch = state.input.charCodeAt(_position);
    if (ch === 0 || is_WS_OR_EOL(ch)) {
      return true;
    }
  }

  return false;
}

function writeFoldedLines(state, count) {
  if (count === 1) {
    state.result += ' ';
  } else if (count > 1) {
    state.result += common.repeat('\n', count - 1);
  }
}

function readPlainScalar(state, nodeIndent, withinFlowCollection) {
  var preceding,
      following,
      captureStart,
      captureEnd,
      hasPendingContent,
      _line,
      _lineStart,
      _lineIndent,
      _kind = state.kind,
      _result = state.result,
      ch;

  ch = state.input.charCodeAt(state.position);

  if (is_WS_OR_EOL(ch) ||
      is_FLOW_INDICATOR(ch) ||
      ch === 0x23/* # */ ||
      ch === 0x26/* & */ ||
      ch === 0x2A/* * */ ||
      ch === 0x21/* ! */ ||
      ch === 0x7C/* | */ ||
      ch === 0x3E/* > */ ||
      ch === 0x27/* ' */ ||
      ch === 0x22/* " */ ||
      ch === 0x25/* % */ ||
      ch === 0x40/* @ */ ||
      ch === 0x60/* ` */) {
    return false;
  }

  if (ch === 0x3F/* ? */ || ch === 0x2D/* - */) {
    following = state.input.charCodeAt(state.position + 1);

    if (is_WS_OR_EOL(following) &&
        testDocumentSeparator(following)) {
      break;
    }
  }

  ch = state.input.charCodeAt(state.position);

  if (is_WS_OR_EOL(ch)) {
    if (is_WS_OR_EOL(following)) {
      return false;
    } else if (ch === 0x23/* # */ || ch === 0x26/* & */ ||
      ch === 0x2A/* * */ ||
      ch === 0x21/* ! */ ||
      ch === 0x7C/* | */ ||
      ch === 0x3E/* > */ ||
      ch === 0x27/* ' */ ||
      ch === 0x22/* " */ ||
      ch === 0x25/* % */ ||
      ch === 0x40/* @ */ ||
      ch === 0x60/* ` */) {
    if (ch === 0x2D/* - */) {
      state.result += '\n';
      state.line = _line;
      state.lineStart = _lineStart;
      state.lineIndent = _lineIndent;
      skipSeparationSpace(state, false, -1);
    }

    if (ch === 0x2A/* * */) {
      state.result += '\n';
      state.line = _line;
      state.lineStart = _lineStart;
      state.lineIndent = _lineIndent;
      break;
    }
    break;
  }

  if (is_EOL(ch) ||
      ch === 0x22/* " */) {
    _line = state.line;
    _lineStart = state.lineStart;
    _lineIndent = state.lineIndent;
    skipSeparationSpace(state, false, -1);

    if (state.lineStart === state.line) {
      hasPendingContent = true;
    } else {
      if (state.lineStart !== state.line) {
        hasPendingContent = false;
      }
    }

    if (state.lineStart !== state.line) {
      writeFoldedLines(state, state.line - _line);
      state.line = _line;
      state.lineStart = _lineStart;
      state.lineIndent = _lineIndent;
    }

    if (hasPendingContent) {
      writeFoldedLines(state, state.line - _line);
    }
  }
}

function throwError(state, message) {
  state.line = startLine || state.line;
  state.position = startPos || state.position;

  if (is_EOL(state.position)) {
    state.result += '
';
    state.line = state.line + 1;
  }

  state.result += message + '\n';
  state.line = state.line + 1;
  state.position = state.position + message.length + 1;
}

function testDocumentSeparator(state) {
  state.result += '
';
  state.line = state.line + 1;
  state.position = state.position + 1;
}

function skipSeparationSpace(state, allowComments, checkIndent) {
  state.result += '\n';
  state.line = state.line + 1;
  state.position = state.position + 1;
}

function readPlainScalar(state, nodeIndent, withinFlowCollection) {
  state.result += '\n';
  state.line = state.line + 1;
  state.position = state.position + 1;
}

function throwError(state, message) {
  state.line = startLine || state.line;
  state.position = startPos || state.position;

  if (is_EOL(state.position)) {
    state.result += '
';
    state.line = state.line + 1;
  }

  state.result += message + '\n';
  state.line = state.line + 1;
  state.position = state.position + message.length + 1;
}

function testDocumentSeparator(state) {
  state.result += '
';
  state.line = state.line + 1;
  state.position = state.position + 1;
}

function skipSeparationSpace(state, allowComments, checkIndent) {
  state.result += '\n';
  state.line = state.line + 1;
  state.position = state.position + 1;
}

function throwError(state, message) {
  state.line = startLine || state.line;
  state.position = startPos || state.position;

  if (is_EOL(state.position)) {
    state.result += '
';
    state.line = state.line + 1;
  }

  state.result += message + '\n';
  state.line = state.line + 1;
  state.position = state.position + message.length + 1;
}

function testDocumentSeparator(state) {
  state.result += '
';
  state.line = state.line + 1;
  state.position = state.position + 1;
}

function skipSeparationSpace(state, allowComments, checkIndent) {
  state.result += '\n';
  state.line = state.line + 1;
  state.position = state.position + 1;
}

function throwError(state, message) {
  state.line = startLine || state.line;
  state.position = startPos || state.position;

  if (is_EOL(state.position)) {
    state.result += '
';
    state.line = state.line + 1;
  }

  state.result += message + '\n';
  state.line = state.line + 1;
  state.position = state.position + message.length + 1;
}

function testDocumentSeparator(state) {
  state.result += '
';
  state.line = state.line + 1;
  state.position = state.position + 1;
}
```javascript
function readSingleQuotedScalar(state, nodeIndent) {
  var ch,
      captureStart, captureEnd;

  ch = state.input.charCodeAt(state.position);

  if (ch !== 0x27/* ' */) {
    return false;
  }

  state.kind = 'scalar';
  state.result = '';
  state.position++;
  captureStart = captureEnd = state.position;

  while ((ch = state.input.charCodeAt(state.position)) !== 0) {
    if (ch === 0x27/* ' */) {
      captureSegment(state, captureStart, state.position, true);
      ch = state.input.charCodeAt(++state.position);

      if (ch === 0x27/* ' */) {
        captureStart = state.position;
        state.position++;
        captureEnd = state.position;
      } else {
        return true;
      }
    } else if (is_EOL(ch)) {
      captureSegment(state, captureStart, captureEnd, true);
      writeFoldedLines(state, skipSeparationSpace(state, false, nodeIndent));
      captureStart = captureEnd = state.position;
    } else if (state.position === state.lineStart && testDocumentSeparator(state)) {
      throwError(state, 'unexpected end of the document within a single quoted scalar');
    } else {
      captureEnd = state.position++;
      state.captureEnd = state.position;
    }
  }

  throwError(state, 'unexpected end of the stream within a single quoted scalar');
}

function readDoubleQuotedScalar(state, nodeIndent) {
  var captureStart,
      captureEnd,
      hexLength,
      hexResult,
      tmp,
      ch;

  ch = state.input.charCodeAt(state.position);

  if (ch !== 0x22/* " */) {
    return false;
  }

  state.kind = 'scalar';
  state.result = '';
  state.position++;
  captureStart = captureEnd = state.position;

  while ((ch = state.input.charCodeAt(state.position)) !== 0) {
    if (ch === 0x22/* " */) {
      captureSegment(state, captureStart, state.position, true);
      state.position++;
      return true;
    } else if (ch === 0x5C/* \ */) {
      captureSegment(state, captureStart, state.position, true);
      ch = state.input.charCodeAt(++state.position);
    } else if (is_EOL(ch)) {
      skipSeparationSpace(state, false, nodeIndent);
    } else if (ch < 256 && simpleEscapeCheck[ch]) {
      hexLength = 0;
      hexResult = 0;
      for (; hexLength > 0; hexLength--) {
        ch = state.input.charCodeAt(++state.position);
        if ((tmp = fromHexCode(ch)) >= 0) {
          hexResult = (hexResult << 4) + tmp;
        } else {
          throwError(state, 'expected hexadecimal character');
        }
      }
      state.result += charFromCodepoint(hexResult);
    } else if (ch < 256 && simpleEscapeCheck[ch]) {
      throwError(state, 'unknown escape sequence');
    } else {
      throwError(state, 'missed comma between double quoted scalar');
    }
  }

  throwError(state, 'unexpected end of the stream within a double quoted scalar');
}
```
skipSeparationSpace(state, true, nodeIndent);

ch = state.input.charCodeAt(state.position);

if ((isExplicitPair || state.line === _line) & & ch === 0x3A/* : */) {
  isPair = true;
  ch = state.input.charCodeAt(++state.position);
  skipSeparationSpace(state, true, nodeIndent);
}

composeNode(state, nodeIndent, CONTEXT_FLOW_IN, false, true);

ch = state.input.charCodeAt(state.position);

if (ch === 0x3A/* : */) {
  isPair = true;
  ch = state.input.charCodeAt(++state.position);
  skipSeparationSpace(state, true, nodeIndent);

  composeNode(state, nodeIndent, CONTEXT_FLOW_IN, false, true);
  valueNode = state.result;
}

if (isMapping) {
  storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, valueNode);
} else if (isPair) {
  _result.push(storeMappingPair(state, null, overridableKeys, keyTag, keyNode, valueNode));
} else {
  _result.push(keyNode);
}

skipSeparationSpace(state, true, nodeIndent);

ch = state.input.charCodeAt(state.position);

if (ch === 0x2C/* , */) {
  readNext = true;
  ch = state.input.charCodeAt(++state.position);
} else {
  readNext = false;
}

throwError(state, 'unexpected end of the stream within a flow collection');

function readBlockScalar(state, nodeIndent) {
  var captureStart, folding, chomping = CHOMPING_CLIP, didReadContent = false,
  detectedIndent = false, textIndent = nodeIndent, emptyLines = 0, atMoreIndented = false,
  tmpl, ch;\n
  ch = state.input.charCodeAt(state.position);

  if (ch === 0x7C/* | */) {
    folding = false;
  } else if (ch === 0x3E/* > */) {
    folding = true;
  } else {
    return false;
  }

  state.kind = 'scalar';
  state.result = '';

  while (ch !== 0) {
    ch = state.input.charCodeAt(++state.position);

    if (ch === 0x2B/* + */ || ch === 0x2D/* - */) {
      if (CHOMPING_CLIP === chomping) {
        chomping = (ch === 0x2B/* + */) ? CHOMPING_KEEP : CHOMPING_STRIP;
      } else {
        throwError(state, 'repeat of a chomping mode identifier');
      }

    } else if ((tmp = fromDecimalCode(ch)) >= 0) {
      if (tmp === 0) {
        throwError(state, 'bad explicit indentation width of a block scalar; it cannot be less than one');
      } else if (!detectedIndent) {
        textIndent = nodeIndent + tmp - 1;
        detectedIndent = true;
      } else {
        throwError(state, 'repeat of an indentation width identifier');
      }

    } else {
      break;
    }

  }

  if (is_WHITE_SPACE(ch)) {
    do { ch = state.input.charCodeAt(++state.position); }
    while (is_WHITE_SPACE(ch));

    if (ch === 0x23/* # */) {
      do { ch = state.input.charCodeAt(++state.position); }
      while (!is_EOL(ch) && (ch !== 0));
    }
  }

  while (ch !== 0) {
    readLineBreak(state);
    state.lineIndent = 0;

    ch = state.input.charCodeAt(state.position);

    while ((!detectedIndent || state.lineIndent < textIndent) &&
           (ch === 0x20/* Space */)) {
      state.lineIndent++;
      ch = state.input.charCodeAt(state.position);
    }

    if (!detectedIndent && state.lineIndent > textIndent) {
      textIndent = state.lineIndent;
    }

    if (is_EOL(ch)) {
      emptyLines++;
      continue;
    }

    // End of the scalar.
    if (state.lineIndent < textIndent) {
      // Perform the chomping.
      if (chomping === CHOMPING_KEEP) {
        state.result += common.repeat('\n', didReadContent ? 1 + emptyLines : emptyLines);
      } else if (chomping === CHOMPING_CLIP) {
        if (didReadContent) { // i.e. only if the scalar is not empty.
          state.result += '\n';
        }
      }

      // Break this `while` cycle and go to the function's epilogue.
      break;
    }

    // Folded style: use fancy rules to handle line breaks.
    if (folding) {
      // Lines starting with white space characters (more-indented lines) are not folded.
      if (is_WHITE_SPACE(ch)) {
        do { ch = state.input.charCodeAt(++state.position); }
        while (is_WHITE_SPACE(ch));
      }

      // Just one line break - perceive as the same line.
    } else if (chomping === CHOMPING_CLIP) {
      if (didReadContent) { // i.e. only if we have already read some scalar content.
        state.result += '\n';
      }

      // Several line breaks - perceive as different lines.
    } else {
      // Literal style: just add exact number of line breaks between content lines.
    }

  }

  return true;
}

function readBlockSequence(state, nodeIndent) {
  var _line, _tag = state.tag, _anchor = state.anchor,
      _result = [], following, didReadContent = false,
      emptyLines = 0, captureStart = state.position;

  if (ch === state.input.charCodeAt(++state.position)) {
    _result.push(readBlockScalar(state, nodeIndent), var_line, _tag = state.tag, _anchor = state.anchor, _result = []);
  }

(ch !== 0) {\n\n if (ch !== 0x2D/* - */) {\n
break;\n }\n\n following = state.input.charCodeAt(state.position
+ 1);\n\n if (!is_WS_OR_EOL(following)) {\n
break;\n }\n\n detected = true;\n state.position++;\n\n if
(skipSeparationSpace(state, true, -1)) {\n
if (state.lineIndent <= nodeIndent) {\n
_result.push(null);\n
ch
= state.input.charCodeAt(state.position);\n
continue;\n
}\n }\n\n _line = state.line;\n
composeNode(state, nodeIndent, CONTEXT_BLOCK_IN, false, true);\n _result.push(state.result);\n
skipSeparationSpace(state, true, -1);\n\n ch = state.input.charCodeAt(state.position);\n\n if ((state.line === _line
|| state.lineIndent > nodeIndent) && (ch !== 0)) {\n
throwError(state, 'bad indentation of a sequence entry');\n }
else if (state.lineIndent < nodeIndent) {\n
break;\n }\n }\n\n if (detected) {\n state.tag = _tag;\n
state.anchor = _anchor;\n state.kind = 'sequence';\n state.result = _result;\n return true;\n }\n return
false;\n}\n\nfunction readBlockMapping(state, nodeIndent, flowIndent) {\n var following,\n
allowCompact,\n
_line,\n
_pos,\n
_tag
= state.tag,\n
_anchor
= state.anchor,\n
_result
= {},\n
overridableKeys = {},\n
keyTag
= null,\n
keyNode
= null,\n
valueNode = null,\n
atExplicitKey = false,\n
detected
= false,\n
ch;\n\n if (state.anchor !== null) {\n
state.anchorMap[state.anchor] = _result;\n }\n\n ch = state.input.charCodeAt(state.position);\n\n while (ch !== 0)
{\n following = state.input.charCodeAt(state.position + 1);\n _line = state.line; // Save the current line.\n _pos
= state.position;\n\n //\n // Explicit notation case. There are two separate blocks:\n // first for the key (denoted
by \"?\") and second for the value (denoted by \":\")\n //\n if ((ch === 0x3F/* ? */ || ch === 0x3A/* : */) &&
is_WS_OR_EOL(following)) {\n\n
if (ch === 0x3F/* ? */) {\n
if (atExplicitKey) {\n
storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, null);\n
keyTag = keyNode = valueNode
= null;\n
}\n\n
detected = true;\n
atExplicitKey = true;\n
allowCompact = true;\n\n
} else if
(atExplicitKey) {\n
// i.e. 0x3A/* : */ === character after the explicit key.\n
atExplicitKey = false;\n
allowCompact = true;\n\n
} else {\n
throwError(state, 'incomplete explicit mapping pair; a key node is
missed; or followed by a non-tabulated empty line');\n
}\n\n
state.position += 1;\n
ch = following;\n\n //\n
// Implicit notation case. Flow-style node as the key first, then \":\", and the value.\n //\n } else if
(composeNode(state, flowIndent, CONTEXT_FLOW_OUT, false, true)) {\n\n
if (state.line === _line) {\n
ch = state.input.charCodeAt(state.position);\n\n
while (is_WHITE_SPACE(ch)) {\n
ch =
state.input.charCodeAt(++state.position);\n
}\n\n
if (ch === 0x3A/* : */) {\n
ch =
state.input.charCodeAt(++state.position);\n\n
if (!is_WS_OR_EOL(ch)) {\n
throwError(state, 'a
whitespace character is expected after the key-value separator within a block mapping');\n
}\n\n
if
(atExplicitKey) {\n
storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, null);\n
keyTag = keyNode = valueNode = null;\n
}\n\n
detected = true;\n
atExplicitKey = false;\n
allowCompact = false;\n
keyTag = state.tag;\n
keyNode = state.result;\n\n
} else if (detected) {\n
throwError(state, 'can not read an implicit mapping pair; a colon is missed');\n\n
} else {\n
state.tag =
_tag;\n
state.anchor = _anchor;\n
return true; // Keep the result of `composeNode`.\n
}\n\n
} else
if (detected) {\n
throwError(state, 'can not read a block mapping entry; a multiline key may not be an implicit
key');\n\n
} else {\n
state.tag = _tag;\n
state.anchor = _anchor;\n
return true; // Keep the result of
`composeNode`.\n
}\n\n } else {\n
break; // Reading is done. Go to the epilogue.\n }\n\n //\n //
Common reading code for both explicit and implicit notations.\n //\n if (state.line === _line || state.lineIndent >
nodeIndent) {\n
if (composeNode(state, nodeIndent, CONTEXT_BLOCK_OUT, true, allowCompact)) {\n
if
(atExplicitKey) {\n
keyNode = state.result;\n
} else {\n
valueNode = state.result;\n
}\n
}\n\n
if (!atExplicitKey) {\n
storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, valueNode, _line,
_pos);\n
keyTag = keyNode = valueNode = null;\n
}\n\n
skipSeparationSpace(state, true, -1);\n
ch =
state.input.charCodeAt(state.position);\n }\n\n if (state.lineIndent > nodeIndent && (ch !== 0)) {\n
throwError(state, 'bad indentation of a mapping entry');\n } else if (state.lineIndent < nodeIndent) {\n break;\n
}\n }\n\n //\n // Epilogue.\n //\n\n // Special case: last mapping's node contains only the key in explicit notation.\n
if (atExplicitKey) {\n storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, null);\n }\n\n //
Expose the resulting mapping.\n if (detected) {\n state.tag = _tag;\n state.anchor = _anchor;\n state.kind =
'mapping';\n state.result = _result;\n }\n\n return detected;\n}\n\nfunction readTagProperty(state) {\n var

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```javascript
indentStatus = -1;
} else {
  allowBlockCollections = false;
} if (allowBlockCollections) {
  if (indentStatus === 1) {
    blockIndent = state.position - state.lineStart;
  }
}

if (allowBlockCollections && readBlockSequence(state, blockIndent)) {
  readBlockMapping(state, blockIndent, flowIndent);
}

if (hasContent === true) {
  allowBlockCollections = false;
} else if (readBlockScalar(state, flowIndent)) {
  hasContent = true;
} else if (readAlias(state)) {
  throwWarning(state, 'alias node should not have any properties');
} else if (readPlainScalar(state, flowIndent, CONTEXT_FLOW_IN === nodeContext)) {
  hasContent = true;
}

if (allowBlockCollections) {
  allowBlockCollections = atNewLine || allowCompact;
}

if (indentStatus === 1 || CONTEXT_BLOCK_OUT === nodeContext) {
  if (CONTEXT_FLOW_IN === nodeContext || CONTEXT_FLOW_OUT === nodeContext) {
    flowIndent = parentIndent;
  } else {
    flowIndent = parentIndent + 1;
  }

  blockIndent = state.position - state.lineStart;

  if (indentStatus === 1) {
    if (allowBlockCollections &&
        (readBlockSequence(state, blockIndent) ||
         readBlockMapping(state, blockIndent, flowIndent)) ||
         readSingleQuotedScalar(state, flowIndent)) {
      hasContent = true;
    } else if (readAlias(state)) {
      hasContent = true;
    } else if (readAlias(state)) {
      hasContent = true;
    } else if (allowBlock Scalars && readBlockScalar(state, flowIndent)) {
      hasContent = true;
    } else if (readPlainScalar(state, flowIndent, CONTEXT_FLOW_IN === nodeContext)) {
      hasContent = true;
    }
  }

  if (indentStatus === 1) {
    if (allowBlockCollections &&
        (readBlockSequence(state, blockIndent) ||
         readBlockMapping(state, blockIndent, flowIndent)) ||
         readSingleQuotedScalar(state, flowIndent)) {
      hasContent = true;
    }
  }

  if (state.tag !== null || state.anchor !== null) {
    throwWarning(state, 'unknown tag !<' + state.tag + '>');
  }

  if (state.anchor !== null) {
    state.anchorMap[state.anchor] = state.result;
  }

  if (state.tag !== null && state.tag !== '!') {
    if (state.tag === '?') {
      for (typeIndex = 0, typeQuantity = state.implicitTypes.length; typeIndex < typeQuantity; typeIndex += 1) {
        type = state.implicitTypes[typeIndex];

        if (type.resolve(state.result)) { // `state.result` updated in resolver if matched
          state.result = type.construct(state.result);
          state.tag = type.tag;
          if (state.anchor !== null) {
            state.anchorMap[state.anchor] = state.result;
          }
          break;
        }
      }
    } else {
      throwError(state, 'unknown tag !<' + state.tag + '>');
    }
  }

  if (state.listener !== null) {
    state.listener('close', state);
  }
  return state.tag !== null || state.anchor !== null || hasContent;
}

function readDocument(state) {
  var documentStart = state.position,
      _position,
      directiveName,
      directiveArgs,
      hasDirectives = false,
      ch;

  state.version = null;
  state.checkLineBreaks = state.legacy;
  state.tagMap = {};
  state.anchorMap = {};

  while ((ch = state.input.charCodeAt(state.position)) !== 0) {
    skipSeparationSpace(state, true, -1);

    ch = state.input.charCodeAt(state.position);

    if (state.lineIndent > 0 || ch !== 0x25/* % */) {
      break;
    }

    hasDirectives = true;
    ch = state.input.charCodeAt(++state.position);

    _position = state.position;

    while (ch !== 0 && !is_EOL(ch)) {
      _position = state.position;

      while (ch !== 0 && !is_EOL(ch)) {
        ch = state.input.charCodeAt(++state.position);
      }

      if (ch === 0x23/* # */) {
        do { ch = state.input.charCodeAt(++state.position); } while (ch !== 0x25/* % */) {
          ch = state.input.charCodeAt(++state.position);
        }
      }

      if (ch <= 0x24/* < */) {
        break;
      }
    }

    if (ch <= 0x24/* < */) {
      break;
    }
  }

  return documentStart;
}
```

state.input.charCodeAt(state.position) === 0x2D/* - */ &&
      state.input.charCodeAt(state.position + 1) === 0x2D/* - */ &&
      state.input.charCodeAt(state.position + 2) === 0x2D/* - */) {
    state.position += 3;
    skipSeparationSpace(state, true, -1);
  } else if (hasDirectives) {
    throwError(state, 'directives end mark is expected');
  }

  composeNode(state, state.lineIndent - 1, CONTEXT_BLOCK_OUT, false, true);
  skipSeparationSpace(state, true, -1);

  if (state.checkLineBreaks &&
      PATTERN_NON_ASCII_LINEBREAKS.test(state.input.slice(documentStart, state.position))) {
    throwWarning(state, 'non-ASCII line breaks are interpreted as content');
  }

  state.documents.push(state.result);

  if (state.position === state.lineStart && testDocumentSeparator(state)) {
    if (state.input.charCodeAt(state.position) === 0x2E/* . */) {
      state.position += 3;
      skipSeparationSpace(state, true, -1);
    }
    return;
  }

  if (state.position < (state.length - 1)) {
    throwError(state, 'end of the stream or a document separator is expected');
  } else {
    return;
  }
}

function loadDocuments(input, options) {
  input = String(input);
  options = options || {};

  if (input.length !== 0) {
    // Add tailing `\n` if not exists\n  if (input.charCodeAt(input.length - 1) !== 0x0A/* LF */ &&
      input.charCodeAt(input.length - 1) !== 0x0D/* CR */) {
    input += '\n';
  }

  // Strip BOM
  if (input.charCodeAt(0) === 0xFEFF) {
    input = input.slice(1);
  }

  var state = new State(input, options);

  // Use 0 as string terminator. That significantly simplifies bounds check.\n  state.input += '\0';

  while (state.input.charCodeAt(state.position) === 0x20/* Space */) {
    state.lineIndent += 1;
    state.position += 1;
  }

  while (state.position < (state.length - 1)) {
    readDocument(state);
  }

  return state.documents;
}

function loadAll(input, iterator, options) {
  var documents = loadDocuments(input, options), index, length;

  if (typeof iterator !== 'function') {
    return documents;
  }

  for (index = 0, length = documents.length; index < length; index += 1) {
    iterator(documents[index]);
  }
}

function load(input, options) {
  var documents = loadDocuments(input, options);

  if (documents.length === 0) {
    /*eslint-disable no-undefined*/
    return undefined;
  } else if (documents.length === 1) {
    return documents[0];
  }

  throw new YAMLException('expected a single document in the stream, but found more');
}

function safeLoadAll(input, output, options) {
  if (typeof output === 'function') {
    loadAll(input, output, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
  } else {
    return loadAll(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
  }
}

function safeLoad(input, options) {
  return load(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
}

module.exports.loadAll     = loadAll;
module.exports.load        = load;
module.exports.safeLoadAll = safeLoadAll;
module.exports.safeLoad    = safeLoad;

WEBPACK FOOTER

module chunks = 0

"use strict";

var common = require('./common');

module.exports = new

WEBPACK FOOTER

"use strict";

var Type = require('../type');

module.exports = new
function resolveYamlTimestamp(data) {
  if (data === null)
    return false;
  if (YAML_DATE_REGEXP.exec(data) !== null)
    return true;
  if (YAML_TIMESTAMP_REGEXP.exec(data) !== null)
    return true;
  return false;
}

function constructYamlTimestamp(data) {
  var match, year, month, day, hour, minute, second, fraction = 0,
      delta = null, tz_hour, tz_minute, date;

  match = YAML_DATE_REGEXP.exec(data);
  if (match === null)
    match = YAML_TIMESTAMP_REGEXP.exec(data);

  if (match === null)
    throw new Error('Date resolve error');

  year = +(match[1]);
  month = +(match[2]) - 1; // JS month starts with 0
  day = +(match[3]);

  if (!match[4]) { // no hour
    return new Date(Date.UTC(year, month, day));
  }

  hour = +(match[4]);
  minute = +(match[5]);
  second = +(match[6]);

  if (match[7]) {
    fraction = match[7].slice(0, 3);
    while (fraction.length < 3) { // milliseconds
      fraction += '0';
    }
    fraction = +fraction;
  }

  if (match[9]) {
    tz_hour = +(match[10]);
    tz_minute = +(match[11] || 0);
    delta = (tz_hour * 60 + tz_minute) * 60000; // delta in milliseconds
    if (match[9] === '-') delta = -delta;
  }

  date = new Date(Date.UTC(year, month, day, hour, minute, second, fraction));
  if (delta) date.setTime(date.getTime() - delta);

  return date;
}

function representYamlTimestamp(object /*, style*/) {
  return object.toISOString();
}

module.exports = new Type('tag:yaml.org,2002:timestamp', {
  kind: 'scalar',
  resolve: resolveYamlTimestamp,
  construct: constructYamlTimestamp,
  instanceof: Date,
  represent: representYamlTimestamp,
});


//////////////////
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml/type/timestamp.js
// module id = 516
// module chunks = 0
```javascript
map[(bits >> 12) & 0x3F];
    result += map[(bits >> 6) & 0x3F];
    result += map[bits & 0x3F];
  } else if (tail === 2) {
    result += map[(bits >> 10) & 0x3F];
    result += map[(bits >> 4) & 0x3F];
    result += map[(bits << 2) & 0x3F];
    result += map[64];
  } else if (tail === 1) {
    result += map[(bits >> 2) & 0x3F];
    result += map[(bits << 4) & 0x3F];
    result += map[64];
    result += map[64];
  }

  return result;
}

function isBinary(object) {
  return NodeBuffer && NodeBuffer.isBuffer(object);
}

module.exports = new
});


//////////////////
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml-type/binary.js
// module id = 518
module chunks = 0", "use strict'\n
var Type = require('../type');

var _hasOwnProperty = Object.prototype.hasOwnProperty;
var _toString       = Object.prototype.toString;

function resolveYamlOmap(data) {
  if (data === null) return true;

  var objectKeys = [], index, length, pair, keyHasKey, pairHasKey,
      object = data; for (index = 0, length = object.length; index < length; index += 1) {
    pair = object[index];
    pairHasKey = false; if (_toString.call(pair) !== '[object Object]') return false;
    if (pairHasKey) return false;
  }

  return true;
}

function constructYamlOmap(data) {
  return data !== null ? data : [];
}

module.exports = new
Type('tag:yaml.org,2002:omap', { 'kind': 'sequence', 'resolve: resolveYamlOmap,
'construct: constructYamlOmap
});


//////////////////
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml-type/omap.js
// module id = 520
module chunks = 0", "use strict'

var Type = require('../type');

var _toString = Object.prototype.toString;

function resolveYamlPairs(data) {
  if (data === null) return true;

  var index, length, pair, keys, result,
      object = data;

  result = new Array(object.length);

  for (index = 0, length = object.length; index < length; index += 1) {
    pair = object[index];
    keys = Object.keys(pair);
    if (keys.length !== 1) return false;
    result[index] = [ keys[0], pair[keys[0]] ];
  }

  return true;
}

function constructYamlPairs(data) {
  if (data === null) return [];

  var index, length, pair, keys, result,
      object = data;

  result = new Array(object.length);

  for (index = 0, length = object.length; index < length; index += 1) {
    pair = object[index];
    keys = Object.keys(pair);
    result[index] = [ keys[0], pair[keys[0]] ];
  }

  return result;
}

module.exports = new
Type('tag:yaml.org,2002:pairs', { 'kind': 'sequence', 'resolve: resolveYamlPairs,
'construct: constructYamlPairs
});


//////////////////
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml-type/pairs.js
// module id = 521
module chunks = 0", "use strict'

var Type = require('../../type');

function resolveJavascriptUndefined() {
  return true;
}

function constructJavascriptUndefined() {
  /*eslint-disable no-undefined*/
  return undefined;
}

function representJavascriptUndefined() {
  return '';
}

function isUndefined(object) {
  return typeof object === 'undefined';
}

module.exports = new
Type('tag:yaml.org,2002:js/undefined', { 'kind': 'scalar', 'resolve:
resolveJavascriptUndefined, 'construct: construct JavascriptUndefined,
'predicate: isUndefined, 'represent:
represent JavascriptUndefined
});


//////////////////
// WEBPACK FOOTER
// ./node_modules/@kyleshockey/js-yaml/lib/js-yaml-type/js/undefined.js
// module id = 523
module chunks = 0", "use strict'

var Type = require('../../type');

function resolveJavascriptRegExp(data) {
  if (data === null) return false;
  if (data.length === 0) return false;

  var regexp = data,
      tail = /\//((gim)\*)$/.exec(data),
      modifiers = '';

  // if regexp starts with '/' it can have modifiers and must be properly closed
```
if (regexp[0] === '/') {
    if (tail) modifiers = tail[1];

    if (modifiers.length > 3) return false;

    if (regexp.length - modifiers.length - 1 !== 0) return true;
}

function constructJavascriptRegExp(data) {
    var regexp = data;
    tail = /\/(gim)*$/ exec(data);
    modifiers = ";\n    if (regexp[regexp.length - modifiers.length - 1 - 1] !== '/') return false;

    if (regexp.slice(1, regexp.length - modifiers.length - 1 - 1) !== '') return new RegExp(regexp, modifiers);
}

function constructJavascriptFunction(data) {
    var source = '(' + data + ')',
        ast = esprima.parse(source, { range: true });

    if (ast.type !== 'Program' || ast.body.length !== 1 || ast.body[0].type !== 'ExpressionStatement' || (ast.body[0].expression.type !== 'ArrowFunctionExpression' && ast.body[0].expression.type !== 'FunctionExpression')) {
        return false;
    }

    return true;
}

function resolveJavascriptFunction(data) {
    if (data === null) return false;

    try {
        var source = '(' + data + ')',
            ast = esprima.parse(source, { range: true });

        if (ast.type !== 'Program' || ast.body.length !== 1 || ast.body[0].type !== 'ExpressionStatement' || (ast.body[0].expression.type !== 'ArrowFunctionExpression' && ast.body[0].expression.type !== 'FunctionExpression')) {
            return false;
        }

        var params = [],
            body = ast.body[0].expression.params.forEach(function (param) {
                params.push(param.name);
            });

        if (ast.body[0].expression.body.type === 'BlockStatement') {
            try {
                new Function(params, source.slice(body[0] + 1, body[1] - 1));
            } catch (err) {
                return false;
            }
        }

        return true;
    } catch (err) {
        return false;
    }
}

function isRegExp(object) {
    return _toString.call(object) === '[object RegExp]';
}

module.exports = new Type('tag:yaml.org,2002:js/regexp', {
    kind: 'scalar',
    resolve: resolveJavascriptRegExp,
    construct: constructJavascriptRegExp,
    predicate: isRegExp,
    represent: representJavascriptRegExp
});

//////////////////
// WEBPACK FOOTER
// module id = 524
// module chunks = 0

/use strict';

var esprima;

// Use a global esprima, if it's available

if (typeof window !== 'undefined') esprima = window.esprima;

var Type = require('../../type');

function resolveJavascriptFunction(data) {
    if (data === null) return false;

    try {
        var source = '(' + data + ')',
            ast = esprima.parse(source, { range: true });

        if (ast.type !== 'Program' || ast.body.length !== 1 || ast.body[0].type !== 'ExpressionStatement' || (ast.body[0].expression.type !== 'ArrowFunctionExpression' && ast.body[0].expression.type !== 'FunctionExpression')) {
            return false;
        }

        var params = [],
            body = ast.body[0].expression.params.forEach(function (param) {
                params.push(param.name);
            });

        if (ast.body[0].expression.body.type === 'BlockStatement') {
            try {
                new Function(params, source.slice(body[0] + 1, body[1] - 1));
            } catch (err) {
                return false;
            }
        }

        return true;
    } catch (err) {
        return false;
    }
}

function isFunction(object) {
    return _toString.call(object) === '[object Function]';
}

module.exports = new Type('tag:yaml.org,2002:js/function', {
    kind: 'scalar',
    resolve: resolveJavascriptFunction,
    construct: constructJavascriptFunction,
    predicate: isFunction,
    represent: representJavascriptFunction
});


//////////////////
// WEBPACK FOOTER
// module id = 525
// module chunks = 0

/use strict';

/*eslint-disable no-use-before-define*/

var common = require('./common');
var YAMLException = require('./exception');
var DEFAULT_FULL_SCHEMA = require('./schema/default_full');
var DEFAULT_SAFE_SCHEMA = require('./schema/default_safe');

var _toString = Object.prototype.toString;
var _hasOwnProperty = Object.prototype.hasOwnProperty;

var CHAR_TAB = 0x09; /* Tab */
var CHAR_LINE_FEED = 0x0A; /* LF */
var CHAR_SPACE = 0x20; /* Space */
var CHAR_EXCLAMATION = 0x21; /* ! */
var CHAR_DOUBLE_QUOTE = 0x22; /* " */
var CHAR_SHARP = 0x23; /* # */
var CHAR_PERCENT = 0x25; /* % */
var CHAR_AMPERSAND = 0x26; /* & */
var CHAR_SINGLE_QUOTE = 0x27; /* ' */
var CHAR_ASTERISK = 0x2A; /* * */
var CHAR_COMMA = 0x2C; /* , */
var CHAR_GREATER_THAN = 0x3E; /* > */
var CHAR_QUESTION = 0x3F; /* ? */
var CHAR_COMMERCIAL_AT = 0x40; /* @ */
var CHAR_TAB = 0x09; /* Tab */
var CHAR_LINE_FEED = 0x0A; /* LF */
var CHAR_SPACE = 0x20; /* Space */
var CHAR_EXCLAMATION = 0x21; /* ! */
var CHAR_DOUBLE_QUOTE = 0x22; /* " */
var CHAR_SHARP = 0x23; /* # */
var CHAR_PERCENT = 0x25; /* % */
var CHAR_AMPERSAND = 0x26; /* & */
var CHAR_SINGLE_QUOTE = 0x27; /* ' */
var CHAR_ASTERISK = 0x2A; /* * */
var CHAR_COMMA = 0x2C; /* , */
var CHAR_GREATER_THAN = 0x3E; /* > */
var CHAR_QUESTION = 0x3F; /* ? */
var CHAR_COMMERCIAL_AT = 0x40; /* @ */
CHAR_RIGHT_SQUARE_BRACKET \n & & c !== CHAR_LEFT_CURLY_BRACKET \n & & c !== CHAR_RIGHT_CURLY_BRACKET \n & & c !== CHAR_LEFT_CURLY_BRACKET \n & & c !== CHAR_COLON \n & & c !== CHAR_MINUS \n & & c !== CHAR_QUESTION \n & & c !== CHAR_COMMA \n & & c !== CHAR_LEFT_SQUARE_BRACKET \n & & c !== CHAR_RIGHT_SQUARE_BRACKET \n & & c !== CHAR_LEFT_CURLY_BRACKET \n & & c !== CHAR_RIGHT_CURLY_BRACKET \n // - "": "#"
 & & c !== CHAR_COLON \n & & c !== CHAR_MINUS \n & & c !== CHAR_QUESTION \n & & c !== CHAR_QUESTION \n & & c !== CHAR_COMMA \n & & c !== CHAR_LEFT_SQUARE_BRACKET \n & & c !== CHAR_RIGHT_SQUARE_BRACKET \n & & c !== CHAR_LEFT_CURLY_BRACKET \n & & c !== CHAR_RIGHT_CURLY_BRACKET

function

isPlainSafeFirst(c) {  // Uses a subset of ns-char - c-indicator
  return isPrintable(c) & & c !== 0xFEFF & & isWhitespace(c) & & - s-white.
}

// Simplified test for values allowed as the first character in plain style.
function

isPlainSafeFirst(c) {  // Uses a subset of ns-char - c-indicator
  return isPrintable(c) & & c !== 0xFEFF & & isWhitespace(c) & & - s-white.
}

// Simplified test for values allowed as the first character in plain style.
function

isPlainSafeFirst(c) {  // Uses a subset of ns-char - c-indicator
  return isPrintable(c) & & c !== 0xFEFF & & isWhitespace(c) & & - s-white.
}

// Simplified test for values allowed as the first character in plain style.
function

isPlainSafeFirst(c) {  // Uses a subset of ns-char - c-indicator
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function

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  return isPrintable(c) & & c !== 0xFEFF & & isWhitespace(c) & & - s-white.
}
```javascript
var result = '';
var char, nextChar;
var escapeSeq;

for (var i = 0; i < string.length; i++) {
  char = string.slice(1); // drop extra \n joiner
}

// Escapes a double-quoted string.
function escapeString(string) {
  var match;
  while ((match = breakRe.exec(string))) {
    var prefix = match[1], line = match[2];
    result += prefix + (typeof prefix === 'string' ? prefix.slice(0, -1) : '');
  }

  return result;
}

// Greedy line breaking.
// Picks the longest line under the limit each time,
// otherwise settles for the
```

require('./toNumber');\n\n/** Error message constants. */\nvar FUNC_ERROR_TEXT = 'Expected a function';\n\n/*
Built-in method references for those with the same name as other `lodash` methods. */\nvar nativeMax =
Math.max,\n nativeMin = Math.min;\n\n/**\n * Creates a debounced function that delays invoking `func` until
after `wait`\n * milliseconds have elapsed since the last time the debounced function was\n * invoked. The
debounced function comes with a `cancel` method to cancel\n * delayed `func` invocations and a `flush` method to
immediately invoke them.\n * Provide `options` to indicate whether `func` should be invoked on the\n * leading
and/or trailing edge of the `wait` timeout. The `func` is invoked\n * with the last arguments provided to the
debounced function. Subsequent\n * calls to the debounced function return the result of the last `func`\n *
invocation.\n *\n * **Note:** If `leading` and `trailing` options are `true`, `func` is\n * invoked on the trailing edge
of the timeout only if the debounced function\n * is invoked more than once during the `wait` timeout.\n *\n * If
`wait` is `0` and `leading` is `false`, `func` invocation is deferred\n * until to the next tick, similar to `setTimeout`
with a timeout of `0`.\n *\n * See [David Corbacho's article](https://css-tricks.com/debouncing-throttling-explainedexamples/)\n * for details over the differences between `_.debounce` and `_.throttle`.\n *\n * @static\n *
@memberOf _\n * @since 0.1.0\n * @category Function\n * @param {Function} func The function to debounce.\n
* @param {number} [wait=0] The number of milliseconds to delay.\n * @param {Object} [options={}] The options
object.\n * @param {boolean} [options.leading=false]\n * Specify invoking on the leading edge of the timeout.\n *
@param {number} [options.maxWait]\n * The maximum time `func` is allowed to be delayed before it's invoked.\n
* @param {boolean} [options.trailing=true]\n * Specify invoking on the trailing edge of the timeout.\n * @returns
{Function} Returns the new debounced function.\n * @example\n *\n * // Avoid costly calculations while the
window size is in flux.\n * jQuery(window).on('resize', _.debounce(calculateLayout, 150));\n *\n * // Invoke
`sendMail` when clicked, debouncing subsequent calls.\n * jQuery(element).on('click', _.debounce(sendMail, 300,
{\n * 'leading': true,\n * 'trailing': false\n * }));\n *\n * // Ensure `batchLog` is invoked once after 1 second of
debounced calls.\n * var debounced = _.debounce(batchLog, 250, { 'maxWait': 1000 });\n * var source = new
EventSource('/stream');\n * jQuery(source).on('message', debounced);\n *\n * // Cancel the trailing debounced
invocation.\n * jQuery(window).on('popstate', debounced.cancel);\n */\nfunction debounce(func, wait, options) {\n
var lastArgs,\n
lastThis,\n
maxWait,\n
result,\n
timerId,\n
lastCallTime,\n
lastInvokeTime = 0,\n
leading = false,\n
maxing = false,\n trailing = true;\n\n if (typeof func != 'function') {\n throw new
TypeError(FUNC_ERROR_TEXT);\n }\n wait = toNumber(wait) || 0;\n if (isObject(options)) {\n leading =
!!options.leading;\n maxing = 'maxWait' in options;\n maxWait = maxing ?
nativeMax(toNumber(options.maxWait) || 0, wait) : maxWait;\n trailing = 'trailing' in options ? !!options.trailing :
trailing;\n }\n\n function invokeFunc(time) {\n var args = lastArgs,\n
thisArg = lastThis;\n\n lastArgs =
lastThis = undefined;\n lastInvokeTime = time;\n result = func.apply(thisArg, args);\n return result;\n }\n\n
function leadingEdge(time) {\n // Reset any `maxWait` timer.\n lastInvokeTime = time;\n // Start the timer for
the trailing edge.\n timerId = setTimeout(timerExpired, wait);\n // Invoke the leading edge.\n return leading ?
invokeFunc(time) : result;\n }\n\n function remainingWait(time) {\n var timeSinceLastCall = time lastCallTime,\n
timeSinceLastInvoke = time - lastInvokeTime,\n
timeWaiting = wait timeSinceLastCall;\n\n return maxing\n
? nativeMin(timeWaiting, maxWait - timeSinceLastInvoke)\n
:
timeWaiting;\n }\n\n function shouldInvoke(time) {\n var timeSinceLastCall = time - lastCallTime,\n
timeSinceLastInvoke = time - lastInvokeTime;\n\n // Either this is the first call, activity has stopped and we're at
the\n // trailing edge, the system time has gone backwards and we're treating\n // it as the trailing edge, or we've
hit the `maxWait` limit.\n return (lastCallTime === undefined || (timeSinceLastCall >= wait) ||\n
(timeSinceLastCall < 0) || (maxing && timeSinceLastInvoke >= maxWait));\n }\n\n function timerExpired() {\n
var time = now();\n if (shouldInvoke(time)) {\n
return trailingEdge(time);\n }\n // Restart the timer.\n
timerId = setTimeout(timerExpired, remainingWait(time));\n }\n\n function trailingEdge(time) {\n timerId =
undefined;\n\n // Only invoke if we have `lastArgs` which means `func` has been\n // debounced at least once.\n
if (trailing && lastArgs) {\n
return invokeFunc(time);\n }\n lastArgs = lastThis = undefined;\n return
result;\n }\n\n function cancel() {\n if (timerId !== undefined) {\n
clearTimeout(timerId);\n }\n
lastInvokeTime = 0;\n lastArgs = lastCallTime = lastThis = timerId = undefined;\n }\n\n function flush() {\n

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require('./isObject'),
    isSet = require('./isSet'),
    keys = require('./keys');

/** Used to compose bitmasks for
 * cloning. */
var CLONE_DEEP_FLAG = 1,
    CLONE_FLAT_FLAG = 2,
    CLONE_SYMBOLS_FLAG = 4;

/** `Object#toString` result references. */
var argsTag = '[object Arguments]',
    arrayTag = '[object Array]',
    boolTag = '[object Boolean]',
    dateTag = '[object Date]',
    errorTag = '[object Error]',
    funcTag = '[object Function]',
    genTag = '[object GeneratorFunction]',
    mapTag = '[object Map]',
    numberTag = '[object Number]',
    objectTag = '[object Object]',
    regexpTag = '[object RegExp]',
    setTag = '[object Set]',
    stringTag = '[object String]',
    symbolTag = '[object Symbol]',
    weakMapTag = '[object WeakMap]';

var
    arrayBufferTag = '[object ArrayBuffer]',
    dataViewTag = '[object DataView]',
    float32Tag = '[object Float32Array]',
    float64Tag = '[object Float64Array]',
    int8Tag = '[object Int8Array]',
    int16Tag = '[object Int16Array]',
    int32Tag = '[object Int32Array]',
    uint8Tag = '[object Uint8Array]',
    uint8ClampedTag = '[object Uint8ClampedArray]',
    uint16Tag = '[object Uint16Array]',
    uint32Tag = '[object Uint32Array]';

/**
 * The base implementation of `_.clone` and `_.cloneDeep` which tracks
 * traversed objects.
 *
 * @private
 * @param {*} value The value to clone.
 * @param {boolean} bitmask The bitmask flags.
 *  1 - Deep clone
 *  2 - Flatten inherited properties
 *  4 - Clone symbols
 * @param {Function} [customizer] The function to customize
 * cloning.
 * @param {string} [key] The key of `value`.
 * @param {Object} [object] The parent object of
 * `value`.
 * @param {Object} [stack] Tracks traversed objects and their clone counterparts.
 * @returns {*} Returns the cloned value.
 */
function baseClone(value, bitmask, customizer, key, object, stack) {
  var result,
      isDeep = bitmask & CLONE_DEEP_FLAG,
      isFlat = bitmask & CLONE_FLAT_FLAG,
      isFull = bitmask & CLONE_SYMBOLS_FLAG;

  if (customizer) {
    result = object ? customizer(value, key, object, stack) : customizer(value);
  }
  if (result !== undefined) {
    return result;
  }
  if (!isObject(value)) {
    return value;
  }
  var isArr = isArray(value);
  if (isArr) {
    result = initCloneArray(value);
    if (!isDeep) {
      return copyArray(value, result);
    }
  } else {
    var tag = getTag(value),
        isFunc = tag == funcTag || tag == genTag;

    if (isBuffer(value)) {
      return cloneBuffer(value, isDeep);
    }
    if (tag == objectTag || tag == argsTag) {
      result = (isFlat || isFunc) ? {} : initCloneObject(value);
      if (!isDeep) {
        return isFlat
          ? copySymbolsIn(value, baseAssignIn(result, value))
          : copySymbols(value,
            baseAssign(result, value));
      }
    } else {
      if (!cloneableTags[tag]) {
        return object ? value : {};
      }
      result = initCloneByTag(value, tag, isDeep);
    }
  }
  // Check for circular references and return its
  // corresponding clone.
  stack || (stack = new Stack);
  var stacked = stack.get(value);
  if (stacked) {
    return stacked;
  }
  stack.set(value, result);

  if (isSet(value)) {
    value.forEach(function(subValue) {
      result.add(baseClone(subValue, bitmask, customizer, value, stack, key, value, stack));
    });
    return result;
  }
  if (isMap(value)) {
    value.forEach(function(subValue, key) {
      result.set(key, baseClone(value, subValue, value, key, value, stack, key, value, stack));
    });
    return result;
  }
  var var isArr = isArray(value);
  if (isArr) {
    result = initCloneArray(value);
    if (!isDeep) {
      return copyArray(value, result);
    }
    var result = initCloneByTag(value, tag, isDeep);
    return result;
  }

  // Recursively populate clone (susceptible to call stack limits).
  assignValue(result, key, baseClone(value, subValue, value, key, value, stack));
  return result;
}

module.exports = baseClone;


/**
 * A specialized version of `_.forEach` for arrays without support for
 * iteratee
 * shorthands.
 *
 * @private
 * @param {Array} [array] The array to iterate over.
 * @returns {Array} Returns `array`.
 */
function arrayEach(array, iteratee)
```javascript
// WEBPACK FOOTER
// ./node_modules/lodash/_arrayEach.js
// module id = 545
// module chunks = 0

var index = -1, length = array == null ? 0 : array.length;
while (++index < length) {
  if (iteratee(array[index], index, array) === false) {
    break;
  }
}
return array;

module.exports = arrayEach;


/////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseAssign.js
// module id = 546
// module chunks = 0

var copyObject = require('./_copyObject'), keys = require('./keys');

/**
 * The base implementation of `_.assign` without support for multiple sources
 * or `customizer` functions.
 *
 * @private
 * @param {Object} object The destination object.
 * @param {Object} source The source object.
 * @returns {Object} Returns `object`.
 */
function baseAssign(object, source) {
  return object && copyObject(source, keys(source), object);
}

module.exports = baseAssign;


/////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseAssignIn.js
// module id = 547
// module chunks = 0

var isObject = require('./isObject'), isPrototype = require('./_isPrototype'), nativeKeysIn = require('./_nativeKeysIn');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * The base implementation of `_.keysIn` which doesn't treat sparse arrays as dense.
 *
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 */
function baseKeysIn(object) {
  if (!isObject(object)) {
    return nativeKeysIn(object);
  }
  var isProto = isPrototype(object), result = [];

  for (var key in object) {
    if (!isProto || !hasOwnProperty.call(object, key)) {
      result.push(key);
    }
  }
  return result;
}

module.exports = baseKeysIn;


/////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_nativeKeysIn.js
// module id = 548
// module chunks = 0

/**
 * Creates a clone of  `buffer`.
 *
 * @private
 * @param {Buffer} buffer The buffer to clone.
 * @param {boolean} [isDeep] Specify a deep clone.
 * @returns {Buffer} Returns the cloned buffer.
 */
function cloneBuffer(buffer, isDeep) {
  if (isDeep) {
    return buffer.slice();
  }
  var length = buffer.length,
      result = allocUnsafe ? allocUnsafe(length) : new buffer.constructor(length);

  buffer.copy(result);
  return result;
}

module.exports = cloneBuffer;


/////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_cloneBuffer.js
// module id = 549
// module chunks = 0

function cloneArray(source, array) {
  var index = -1, length = source == null ? 0 : source.length;
  while (++index < length) {
    array[index] = source[index];
  }
  return array;
}

module.exports = cloneArray;


/////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_copyArray.js
// module id = 550
// module chunks = 0

var copyObject = require('./_copyObject'), getSymbols = require('./_getSymbols');

/**
 * Copies the values of `source` to `array`.
 *
 * @private
 * @param {Object} source The source object.
 * @returns {Array} Returns the array of copy values from `source`.
 */
function copyObject(source, array) {
  var index = -1, length = source == null ? 0 : source.length;
  while (++index < length) {
    array[index] = source[index];
  }
  return array;
}

module.exports = copyObject;
```
The object to copy symbols from.

* @returns {Object} Returns `object`.

`function copySymbols(source, object) {

  return copyObject(source, getSymbols(source), object);
}

module.exports = copySymbols;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_copySymbols.js
// module id = 552
// module chunks = 0


```javascript

function copySymbolsIn(source, object) {
  return copyObject(source, getSymbolsIn(source), object);
}

module.exports = copySymbolsIn;

```
`function cloneRegExp(regexp) {
  var result = new regexp.constructor(regexp.source,
  reFlags.exec(regexp));
  result.lastIndex = regexp.lastIndex;
  return result;
}`

`module.exports = cloneRegExp;`
isSet = nodeIsSet ? baseUnary(nodeIsSet) : baseIsSet;

module.exports = isSet;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/isSet.js
// module id = 564
// module chunks = 0

var getTag = require('./_getTag'),
    isObjectLike = require('./isObjectLike'),
    setTag = '[object Set]';

/**
 * The base implementation of `_.isSet` without Node.js optimizations.
 *
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a set, else `false`.
 */
function baseIsSet(value) {
  return isObjectLike(value) && getTag(value) == setTag;
}

module.exports = baseIsSet;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_baseIsSet.js
// module id = 565
// module chunks = 0

var castPath = require('./_castPath'),
    last = require('./_last'),
    parent = require('./_parent'),
    toKey = require('./_toKey');

/**
 * The base implementation of `_.unset`.
 *
 * @private
 * @param {Object} object The object to modify.
 * @param {Array|string} path The property path to unset.
 * @returns {boolean} Returns `true` if the property is deleted, else `false`.
 */
function baseUnset(object, path) {
  path = castPath(path, object);
  object = parent(object, path);
  return object == null || delete object[toKey(last(path))];
}

module.exports = baseUnset;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/last.js
// module id = 567
// module chunks = 0

var baseGet = require('./_baseGet'),
    baseSlice = require('./_baseSlice');

/**
 * Gets the parent value at `path` of `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @param {Array} path The path to get the parent value of.
 *
 * @returns {*} Returns the parent value.
 */
function parent(object, path) {
  return path.length < 2 ? object : baseGet(object, baseSlice(path, 0, -1));
}

module.exports = parent;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/_parent.js
// module id = 568
// module chunks = 0

var isPlainObject = require('./isPlainObject');

/**
 * Used by `_.omit` to customize its `_.cloneDeep` use to only clone plain
 * objects.
 *
 * @private
 * @param {*} value The value to inspect.
 * @param {string} key The key of the property to inspect.
 *
 * @returns {*} Returns the uncloned value or `undefined` to defer cloning to `_.cloneDeep`.
 */
function customOmitClone(value) {
  return isPlainObject(value) ? undefined : value;
}

module.exports = customOmitClone;


//////////////////
// WEBPACK FOOTER
// ./node_modules/lodash/isPlainObject.js
// module id = 570
// module chunks = 0

var objectTag = '[object Object]';

/** `Object#toString` result references. */
var funcProto = Function.prototype,
    objectProto = Object.prototype;

/** Used to resolve the decompiled source of functions. */
var funcToString = funcProto.toString;

/**
 * Checks if `value` is a plain object, that is, an object created by the
 * `Object` constructor or one with a `[[Prototype]]` of `null`.
 *
 * @static
 * @memberOf _
 * @since 0.8.0
 *
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a
 * plain object, else `false`.
 */
function isPlainObject(value) {
  if (!isObjectLike(value) || baseGetTag(value) != objectTag) {
    return false;
  }
  var proto = getPrototype(value);
  if (proto === null) {
    return true;
  }
  var Ctor = hasOwnProperty.call(proto, 'constructor') && Ctor.valueOf() == funcToString.call(Object);

  return baseGetTag(value) == objectTag && proto === null && funcToString.call(Ctor) == objectCtorString;
flattened = require('./flatten'),
    overRest = require('./_overRest'),
    setToString = require('./_setToString');

/**
 * A specialized version of `baseRest` which flattens the rest array.
 */

function flatRest(func) {
  return setToString(overRest(func, undefined, flatten), func + '');
}

module.exports = flatRest;


function flatten(array) {
  var length = array == null ? 0 : array.length;
  return length ? baseFlatten(array, 1) : [];
}

module.exports = flatten;


function baseFlatten(array, depth, predicate, isStrict, result) {
  var index = -1,
      length = array.length;

  predicate || (predicate = isFlattenable);
  result || (result = []);

  while (++index < length) {
    var value = array[index];
    if (depth > 0 && predicate(value)) {
      if (depth > 1) {
        // Recursively flatten arrays
        baseFlatten(value, depth - 1, predicate, isStrict, result);
      } else {
        arrayPush(result, value);
      }
    } else if (!isStrict) {
      result[result.length] = value;
    }
  }
  return result;
}

module.exports = baseFlatten;


function isFlattenable(value) {
  return isArray(value) || isArguments(value) || !!(spreadableSymbol && value && value[spreadableSymbol]);
}

module.exports = isFlattenable;


function overRest(func, start, transform) {
  start = nativeMax(start === undefined ? (func.length - 1) : start, 0);
  return apply(func, this, otherArgs);
}

module.exports = overRest;


function apply(func, thisArg, args) {
  switch (args.length) {
    case 0: return func.call(thisArg);
    case 1: return func.call(thisArg, args[0]);
    case 2: return func.call(thisArg, args[0], args[1]);
    case 3: return func.call(thisArg, args[0], args[1], args[2]);
  }
  return func.apply(thisArg,


Open Source Used In SDWan 20.6.1 22432
specActions: PropTypes.object.isRequired,
specSelectors: PropTypes.object.isRequired,
layoutActions: PropTypes.object.isRequired,
layoutSelectors: PropTypes.object.isRequired,
fn:
PropTypes.object.isRequired,
getConfigs: PropTypes.func.isRequired
}

static defaultProps = {
    showSummary: true,
    response: null,
    allowTryItOut: true,
    displayOperationId: false,
    displayRequestDuration: false,
    mapStateToProps: nextState, props) {
        const { op, layoutSelectors, getConfigs } = props;
        const { docExpansion, deepLinking, displayOperationId, displayRequestDuration, supportedSubmitMethods } = getConfigs();
        const showSummary = layoutSelectors.showSummary();
        const operationId = op.getIn(['operation', 'originalOperationId']) || op.get(['operationId', 'originalOperationId']) || opId(op.get('operation'), props.path, props.method) || op.get('id');
        const isShownKey = ['operations', props.tag, operationId);
        const isDeepLinkingEnabled = deepLinking && deepLinking !== 'false';
        const allowTryItOut = supportedSubmitMethods.indexOf(props.method) >= 0 && (typeof props.allowTryItOut === 'undefined' ? props.specSelectors.allowTryItOutFor(props.path, props.method) : props.allowTryItOut);
        const security = op.getIn(['operation', 'security']) || props.specSelectors.security();
        return {
            operationId,
            isDeepLinkingEnabled,
            showSummary,
            displayOperationId,
            displayRequestDuration,
            security,
            isAuthorized: props.authSelectors.isAuthorized(security),
            isShown: layoutSelectors.isShown(isShownKey, docExpansion === 'full'),
            jumpToKey: `paths.${props.path}.${props.method}`.
        };
    }

    static defaultProps = {
        showSummary: true,
        response: null,
        allowTryItOut: true,
        displayOperationId: false,
        displayRequestDuration: false,
        mapStateToProps: (nextState, props) {
            const { op, layoutSelectors, getConfigs } = props;
            const { docExpansion, deepLinking, displayOperationId, displayRequestDuration, supportedSubmitMethods } = getConfigs();
            const showSummary = layoutSelectors.showSummary();
            const operationId = op.getIn(['operation', 'originalOperationId']) || op.get(['operationId', 'originalOperationId']) || opId(op.get('operation'), props.path, props.method) || op.get('id');
            const isShownKey = ['operations', props.tag, operationId];
            const isDeepLinkingEnabled = deepLinking && deepLinking !== 'false';
            const allowTryItOut = supportedSubmitMethods.indexOf(props.method) >= 0 && (typeof props.allowTryItOut === 'undefined' ? props.specSelectors.allowTryItOutFor(props.path, props.method) : props.allowTryItOut);
            const security = op.getIn(['operation', 'security']) || props.specSelectors.security();
            return {
                operationId,
                isDeepLinkingEnabled,
                showSummary,
                displayOperationId,
                displayRequestDuration,
                security,
                isAuthorized: props.authSelectors.isAuthorized(security),
                isShown: layoutSelectors.isShown(isShownKey, docExpansion === 'full'),
                jumpToKey: `paths.${props.path}.${props.method}`.
            };
        }
    }

    componentDidMount() {
        const { isShown } = this.props;
        const resolvedSubtree = this.getResolvedSubtree();
        if (isShown && resolvedSubtree === undefined) {
            this.requestResolvedSubtree();
        }
    }

    componentWillReceiveProps(nextProps) {
        const { response, isShown } = nextProps;
        const resolvedSubtree = this.getResolvedSubtree();
        if (response !== this.props.response) {
            this.setState({ executeInProgress: false });
        }
        if (isShown && resolvedSubtree === undefined) {
            this.requestResolvedSubtree();
        }
    }

    toggleShown() {
        let { layoutActions, tag, operationId, isShown } = this.props;
        const resolvedSubtree = this.getResolvedSubtree();
        if (!isShown && resolvedSubtree === undefined) {
            // transitioning from collapsed to expanded
            this.requestResolvedSubtree();
        }
        layoutActions.show(['operations', tag, operationId], isShown);
specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    authSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired
  }) => {
    const securityDefinitions = specSelectors.securityDefinitions()
    const authorizeableDefinitions = authSelectors.definationsToAuthorize()
    const AuthorizeBtn = getComponent("AuthorizeBtn")
    return securityDefinitions ?
      <AuthorizeBtn
        onClick={() => authActions.showDefinitions(authorizableDefinitions)}
        isAuthorized={!!authSelectors.authorized().size}
        showPopup={!!authSelectors.shownDefinitions()}
        getComponent={getComponent}
      />
    : null
  }

  render () {
    const { authActions, authSelectors, specSelectors, getComponent } = this.props
    
    const securityDefinitions = specSelectors.securityDefinitions()
    const authorizeableDefinitions = authSelectors.definationsToAuthorize()

    const AuthorizeBtn = getComponent("AuthorizeBtn")
    return securityDefinitions ?
      <AuthorizeBtn
        onClick={() => authActions.showDefinitions(authorizableDefinitions)}
        isAuthorized={!!authSelectors.authorized().size}
        showPopup={!!authSelectors.shownDefinitions()}
        getComponent={getComponent}
      />
    : null
  }

export default class AuthorizeOperationBtn extends React.Component {
    static propTypes = {
      isAuthorized: PropTypes.bool.isRequired,
      onClick: PropTypes.func
    }

    onClick = (e) => {
      e.stopPropagation()
      let { onClick } = this.props

      if(onClick) {
        onClick()
      }
    }

    render() {
      let { isAuthorized } = this.props

      return (
        <button className={isAuthorized ? "authorization__btn locked" : "authorization__btn unlocked"}
          aria-label={isAuthorized ? "authorization button locked" : "authorization button unlocked"}
          onClick={this.onClick}>
          <svg width="20" height="20">
            <use href={ isAuthorized ? "#locked" : "#unlocked" } xlinkHref={ isAuthorized ? "#locked" : "#unlocked" } />
          </svg>
        </button>
      )
    }
}

export default class Auths extends React.Component {
  static propTypes = {
    definitions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired
  }

  constructor(props, context) {
    super(props, context)

    this.state = {}
  }

  onAuthChange = (auth) => {
    let { name } = auth

    this.setState({ [name]: auth })
  }

  submitAuth = (e) => {
    e.preventDefault()

    let { authActions } = this.props
    authActions.authorize(this.state)
  }

  logoutClick = (e) => {
    e.preventDefault()

    let { authActions, definitions } = this.props
    let auths = definitions.map( (val, key) => {
      return key
    }).toArray()

    authActions.logout(auths)
  }

  close = (e) => {
    e.preventDefault()
    let { authActions } = this.props

    authActions.showDefinitions(false)
  }

  render() {
    let { definitions, getComponent, authSelectors, errSelectors } = this.props
    const AuthItem = getComponent("AuthItem")
    const Oauth2 = getComponent("oauth2", true)
    const Button = getComponent("Button")

    let authorized = authSelectors.authorized()

    let authorizeableDefinitions = definitions.filter( definition => definition.get("type") === "oauth2")
    let oAuthDefinitions = definitions.filter( definition => definition.get("type") === "oauth")

    return (
      <div className="auth-container">
        {
          !authorized.size & & <form onSubmit={ this.submitAuth }>
            {
              definitions.map( (definition, name) => {
                let authorized = definition.get("authorized")

                return (<AuthItem
                  key={name}
                  schema={definition}
                  name={name}
                  getComponent={getComponent}
                  authorized={authorized}
                  errSelectors={errSelectors}
                  />
              )
            }
            <div className="auth-btn-wrapper">
              {
                authorized.size === authorizeableDefinitions.size ?
                  <Button type="submit" className="btn modal-btn auth authorize" />
              : <Button className="btn modal-btn auth">Logout</Button>
            }
            <Button className="btn modal-btn auth btn-done">Close</Button>
          </form>
        }

        <div className="scope-def">
          <p>Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes.</p>
          <p>API requires the following scopes. Select which ones you want to grant to Swagger UI.</p>
        </div>
      </div>
    )
  }
}
**Open Source Used In SDWan**

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```
examples: ImPropTypes.map.isRequired,
  onSelect: PropTypes.func,
  currentExampleKey: PropTypes.string,
  showLabels: PropTypes.bool,

  static defaultProps = {
    examples: Im.Map({}),
    onSelect: (...args) => {
      console.log // eslint-disable-line no-console
      // FIXME: remove before merging to master...
    }
  }

  _onSelect = (key, { isSyntheticChange = false } = {}) => {
    if (typeof this.props.onSelect === "function") {
      this.props.onSelect(key, {
        isSyntheticChange,
      })
    }
  }

  getCurrentExample = () => {
    const { examples, currentExampleKey } = this.props

    const currentExamplePerProps = examples.get(currentExampleKey)

    return currentExamplePerProps || examples.get(0)
  }

  render() {
    const { examples, currentExampleKey, isValueModified, showLabels } = this.props

    return (
      <div className="examples-select">
        {showLabels ? (<span className="examples-select__section-label">Examples: </span>) : null}
        <select
          onChange={this._onDomSelect}
          value={isValueModified && isValueModified ? "__MODIFIED__VALUE__" : (currentExampleKey || ")"}
        >
          {isValueModified ? (<option value="__MODIFIED__VALUE__">[Modified value]</option>) : null}
          {examples.map((example, exampleName) => {
            return (<option key={exampleName} value={exampleName}> {example.get("summary") || exampleName}</option>)
          })}
        </select>
      </div>
    )
  }
}
let super(props, context) = this.props
let auth = this.props.authSelectors
let authorized = auth.authorized,
let getConfigs = auth.getConfigs(),
let name = this.props.name,
let errorCode = this.props.errSelectors.allErrors().find(err => err.get("authId") === name),
let isValid = errorCode.filter(err => err.get("source") === "validation").size,
let description = schema.get("description")

return (
  <div>
    <h4>{name} (OAuth2, { schema.get("flow") }) <JumpToPath path={["securityDefinitions", name ]} /></h4>
    { !this.state.appName ? null : <h5>Application: { this.state.appName } </h5> }
    { description && <Markdown source={ schema.get("description") } /> }

    { isAuthorized && <h6>Authorized</h6> }

    { ( flow === IMPLICIT || flow === ACCESS_CODE ) && <p>Flow: <code>{ schema.get("flow") }</code></p> }
    { isAuthorized && <label htmlFor="oauth_username">username: </label> }
    { !isAuthorized ? <code>{ this.state.username }</code> : <input type="text" data-name="username" onChange={ this.onInputChange } value={ this.state.username } maxLength={10} placeholder="Username" /> }
    { !isAuthorized ? <label htmlFor="oauth_password">password: </label> : <input type="password" data-name="password" onChange={ this.onInputChange } value={ this.state.password } /> }
  </div>
)
Client credentials location:

```javascript
</Row>\n  \n</Row>\n  <Row>\n    <label htmlFor="password_type">Client credentials location:</label>
    {
      isAuthorized ? <code> { this.state.passwordType } </code>
      : <Col tablet={10} desktop={10}>
        <select id="password_type" data-name="passwordType"
          onChange={ this.onInputChange }>
          <option value="basic">Authorization header</option>
          <option value="request-body">Request body</option>
        </select>
      </Col>
    }
  </Row>
```

```javascript
{
  \n  ( flow === APPLICATION || flow === ACCESS_CODE || flow === PASSWORD ) &\n  ( isAuthorized && this.state.clientId ) &\n  \n  if ( isAuthorized ) {
    <Row>
      <label htmlFor="client_id">client_id:</label>
      
        <Col tablet={10} desktop={10}>
          <input id="client_id"
                 type="text"
                 value={ this.state.clientId }
                 data-name="clientId"
                 onChange={ this.onInputChange }/>
        </Col>
    </Row>
  } else {
    <Row>
      <label htmlFor="client_id">client_id:</label>
      
        <Col tablet={10} desktop={10}>
          <input id="client_id"
                 type="text"
                 value={ this.state.clientId }
                 data-name="clientId"
                 onChange={ this.onInputChange }/>
        </Col>
    </Row>
  }
```

```javascript
{
  \n  ( (flow === APPLICATION || flow === ACCESS_CODE || flow === PASSWORD) && <Row>
            <label htmlFor="client_secret">client_secret:</label>
            {
              isAuthorized ? <code> ****** </code>
              : <Col tablet={10} desktop={10}>
                \n                <input id="client_secret"
                       value={ this.state.clientSecret }
                       type="text"
                       data-name="clientSecret"
                       onChange={ this.onInputChange }/>
              \n            }
          </Row>
      )
```

```javascript
{
  \n  ( !isAuthorized && scopes && scopes.size ) ? <div className="scopes">
            <h2>Scopes:</h2>
            {
              scopes.map((description, name) => {
                return (<Row key={ name }>
                  <div className="checkbox">
                    <Input data-value={ name }
                           id={`${name}-${flow}-checkbox-${this.state.name}`}
                           disabled={ isAuthorized }
                           type="checkbox"
                           onChange={ this.onScopeChange }/>
                    <label htmlFor={`${name}-${flow}-checkbox-${this.state.name}`}>
                      <span className="item"></span>
                      <div className="text">
                        <p className="name">{name}</p>
                        <p className="description">{description}</p>
                      </div>
                    </label>
                </Row>
              )
              ).toArray()
            }
          </div> : null
```

```javascript
errors.valueSeq().map( (error, key) => {
            return <AuthError error={ error }
                              key={ key }/>
          } )
```

```javascript
\n  \n</div>\n</Row>\n\n</Row>\n</Row>\n\n</div>\n</label>
```

```javascript
\n</div>\n</Row>\n\n</Row>\n\n</Row>\n</Row>\n\n</div>\n</Row>\n\n</Row>\n\n</Row>\n\n</Row>\n```
query.push("state=" + encodeURIComponent(state))

  if (typeof authConfigs.realm !== "undefined") {
    query.push("realm=" + encodeURIComponent(authConfigs.realm))
  }

  let { additionalQueryStringParams }

  for (let key in additionalQueryStringParams) {
    if (typeof additionalQueryStringParams[key] !== "undefined") {
      query.push([key, additionalQueryStringParams[key]].map(encodeURIComponent).join("="))
    }
  }

  const authorizationUrl = schema.get("authorizationUrl")

  let url = [sanitizedAuthorizationUrl, query.join("&")].join(authorizationUrl.indexOf("?") === -1 ? "?" : ";")

  // pass action authorizeOauth2 and authentication data through window
  // to authorize with oauth2

  const callback
  if (flow === "implicit") {
    callback = authActions.preAuthorizeImplicit
  } else if (authConfigs.useBasicAuthenticationWithAccessCodeGrant) {
    callback = authActions.authorizeAccessCodeWithBasicAuthentication
  } else {
    callback = authActions.authorizeAccessCodeWithFormParams
  }

  win.swaggerUIRedirectOauth2 = {
    auth: auth,
    state: state,
    redirectUrl: redirectUrl,
    callback: callback,
    errCb: errActions.newAuthErr
  }

  win.open(url)
}

import React, { Component } from "react"
import PropTypes from "prop-types"

export default class Clear extends Component {

  onClick = () => {
    let { specActions, path, method } = this.props
    specActions.clearResponse(path, method)
    specActions.clearRequest(path, method)
  }

  render() {
    return (
      <button className="btn btn-clear opblock-control__btn" onClick={ this.onClick }>
        Clear
      </button>
    )
  }

  static propTypes = {
    specActions: PropTypes.object.isRequired,
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
  }

const Headers = ( { headers } ) => {
  return (
    <div>
      <h5>Response headers</h5>
      <pre>{headers}</pre>
    </div>)
}
Headers.propTypes = {
  headers: PropTypes.array.isRequired
}

const Duration = ( { duration } ) => {
  return (
    <div>
      <h5>Request duration</h5>
      <pre>{duration} ms</pre>
    </div>
  )
}
Duration.propTypes = {
  duration: PropTypes.number.isRequired
}

export default class LiveResponse extends React.Component {
  static propTypes = {
    response: PropTypes.instanceOf(Iterable).isRequired,
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    displayRequestDuration: PropTypes.bool.isRequired,
    specSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired
  }

  shouldComponentUpdate(nextProps) {
    return this.props.response !== nextProps.response
      || this.props.path !== nextProps.path
      || this.props.method !== nextProps.method
      || this.props.displayRequestDuration !== nextProps.displayRequestDuration
  }

  render() {
    const { response, getComponent, getConfigs, displayRequestDuration, specSelectors, path, method } = this.props
    const { showMutatedRequest } = getConfigs()

    const curlRequest = showMutatedRequest ? specSelectors.mutatedRequestFor(path, method) : specSelectors.requestFor(path, method)
    const status = response.get("status")
    const url = curlRequest.get("url")
    const headers = response.get("headers").toJS()
    const notDocumented = response.get("notDocumented")
    const isError = response.get("error")
    const body = response.get("text")
    const duration = response.get("duration")
    const contentType = headers["content-type"] || headers["Content-Type"]
    const Curl = getComponent("curl")
    const responseBody = getComponent("responseBody")
    const returnObject = headersKeys.map(key => {
      return <span className="headerline" key={key}> {headers[key]} </span>
    })
    const hasHeaders = returnObject.length !== 0
    const statusText = response.get("statusText")
    const url = curlRequest.get("url")
    const headers = response.get("headers")
    const operateObjectLength = headers.length
    const hasHeaders = operateObjectLength !== 0
    const <div className="request-url">
      <pre>{url}</pre>
    </div>
  }

<tbody>
            <tr className="response">
              <td className="col response-col_status">
                {status}  
                {notDocumented ? <div className="response-undocumented">
<i> Undocumented </i>
                                  </div>
                                : null}
</td>
              <td className="col response-col_description">
                {isError ? <span>
{`${response.get("name")}: ${response.get("message")}`}
                            </span>
: null}
                {body ? <ResponseBody content={ body }
contentType={ contentType }
url={ url }
headers={ headers }
getComponent={ getComponent }/>
                       : null}
                {hasHeaders ? <Headers headers={ returnObject }/> : null}
                {displayRequestDuration && duration ? <Duration duration={ duration } /> : null}
</td>
</tr>
          </tbody>
        </table>
      </div>
    )
  }

  static propTypes = {
    getComponent: PropTypes.func.isRequired,
    response: ImPropTypes.map
  }
}


// WEBPACK FOOTER //
PropTypes.func.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
    layoutActions: PropTypes.object.isRequired,
    authSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    getConfigs: PropTypes.func.isRequired,
    fn: PropTypes.func.isRequired,
    getConfigs, fn = this.props

  render() {
    let {
      specSelectors,
      getComponent,
      layoutSelectors,
      layoutActions,
      getConfigs,
      fn
    } = this.props

    let taggedOps = specSelectors.taggedOperations()

    if (taggedOps.size < 1) {
      return <h3>No operations defined in spec!</h3>
    }

    return (
      <div>
        {
          taggedOps.map( (tagObj, tag) => {
            const operations = tagObj.get("operations")
            return (<
              OperationTag
              key={"operation-" + tag}
              tagObj={tagObj}
              tag={tag}
              layoutSelectors={layoutSelectors}
              layoutActions={layoutActions}
              getConfigs={getConfigs}
              getComponent={getComponent}>
              {
                operations.map( op => {
                  const path = op.get("path")
                  const method = op.get("method")
                  const specPath = Im.List(["paths", path, method])

                  let validMethods = specSelectors.isOAS3() ? OAS3_OPERATION_METHODS : SWAGGER2_OPERATION_METHODS

                  if (validMethods.indexOf(method) === -1) {
                    return null
                  }

                  return (<OperationContainer
                      key={"operation-" + tag}
                      specPath={specPath}
                      op={op}
                      path={path}
                      method={method}
                      tag={tag}
                      />

                }).toArray()
              }
            ).toArray()
          }
        }
      </div>
    )
  }

Operations.propTypes = {
  layoutActions: PropTypes.object.isRequired,
  specSelectors: PropTypes.object.isRequired,
  specActions: PropTypes.object.isRequired,
  layoutSelectors: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired,
  fn: PropTypes.func.isRequired
}

// WEBPACK FOOTER //
// ./src/core/components/operations.jsx
export default class Operation extends PureComponent {
  static propTypes = {
    specPath: ImPropTypes.list.isRequired,
    operation: PropTypes.instanceOf(Iterable).isRequired,
    summary: PropTypes.string,
    response: PropTypes.instanceOf(Iterable),
    request: PropTypes.instanceOf(Iterable),
    toggleShown: PropTypes.func.isRequired,
    onTryoutClick: PropTypes.func.isRequired,
    onCancelClick: PropTypes.func.isRequired,
    onExecute: PropTypes.func.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    authActions: PropTypes.object,
    authSelectors: PropTypes.object,
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object,
    authSelectors: PropTypes.object,
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    oas3Selectors: PropTypes.object.isRequired,
    layoutActions: PropTypes.object.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
    fn: PropTypes.object.isRequired
  }
  static defaultProps = {
    operation: null,
    response: null,
    request: null,
    specPath: List(),
    summary: ""
  }
  render() {
    let {
      specPath,
      response,
      request,
      toggleShown,
      onTryoutClick,
      onCancelClick,
      onExecute,
      fn,
      getComponent,
      getConfigs,
      specActions,
      specSelectors,
      authActions,
      authSelectors,
      oas3Actions,
      oas3Selectors
    } = this.props
    let operationProps = this.props.operation

    let {
      deprecated,
      isShown,
      path,
      method,
      op,
      tag,
      operationId,
      allowTryItOut,
      displayRequestDuration,
      tryItOutEnabled,
      operationScheme
    } = operationProps.toJS()
path={ path }
method={ method }
displayRequestDuration={
  displayRequestDuration
}
fn={fn} />

{ !showExtensions || !extensions.size ?
null :
    <OperationExt extensions={ extensions } getComponent={ getComponent } />
</div>
</Collapse>
</div>
let render = this.props.tryItOutResponse !== nextProps.tryItOutResponse
  || this.props.producesValue !== nextProps.producesValue
  || this.props.displayRequestDuration !== nextProps.displayRequestDuration
  || this.props.path !== nextProps.path
  return render
}

onChangeProducesWrapper = (val) => this.props.specActions.changeProducesValue({ path, method }, val)

onResponseContentTypeChange = ({ controlsAcceptHeader, value }) => {
  let produces = this.props.produces && this.props.produces.size ? this.props.produces : Responses.defaultProps.produces

  const acceptControllingResponse = isSpecOAS3 ? getAcceptControllingResponse(responses) : null

  return ({ 
    <div className="responses-wrapper">
      <div className="opblock-section-header">
        <h4>Responses</h4>
        { specSelectors.isOAS3() ? null : <label>
          <span>Response content type</span>
          <ContentType value={producesValue}
                        onChange={this.onChangeProducesWrapper}
                        contentTypes={produces}
                        className="execute-content-type"/>
        </label> }
      </div>
      <div className="responses-inner">
        { !tryItOutResponse ? null
                     : <div>
          <LiveResponse response={ tryItOutResponse }
                         getComponent={ getComponent }
                         getConfigs={ getConfigs }
                         specSelectors={ specSelectors }
                         path={ this.props.path }
                         method={ this.props.method }
                         displayRequestDuration={ displayRequestDuration } />
          <Response key={code}
                    path={path}
                    method={method}
                    specPath={specPath.push(code)}
                    isDefault={defaultCode === code}
                    fn={fn}
                    className={className}
                    code={code}
                    response={response}
                    specSelectors={specSelectors}
                    controlsAcceptHeader={response === acceptControllingResponse && tryItOutResponse}
                    onContentTypeChange={this.onResponseContentTypeChange}
                    contentType={producesValue}
                    getComponent={getComponent}
                    activeExamplesKey={oas3Selectors.activeExamplesMember(
                        path,
                        method,
                        responses().toJS().filter((r) => r.code === code)
                  )}
                  .toArray()}
        </div> }
        <table className="responses-table">
          <thead>
            <tr className="responses-header">
              <td className="col_header response-col_status">Code</td>
              <td className="col_header response-col_description">Description</td>
              { specSelectors.isOAS3() ? <td className="col_header response-col_links">Links</td> : null }
            </tr>
          </thead>
          <tbody>
            { responses.entrySeq().map(([code, response]) => {
              let className = tryItOutResponse && tryItOutResponse.get("status") == code ? "response_current" : ""
              return (
                <Response key={code}
                          path={path}
                          method={method}
                          response={response}
                          specSelectors={specSelectors}
                          controlsAcceptHeader={response === acceptControllingResponse && tryItOutResponse}
                          activeExamplesKey={oas3Selectors.activeExamplesMember(
                              path,
                              method,
                              responses().toJS().filter((r) => r.code === code)
                        )}
                        .toArray()}
                        className={className}
                        code={code}
                        response={response}
                        specSelectors={specSelectors}
                        getComponent={getComponent}
                  )
                )
            })
          }
          </tbody>
        </table>
      </div>
    </div>
  )
}

WEBPACK FOOTER //
if (sampleResponse !== undefined) {
  return <tr className="response " data-code={code}>
    <td className="col response-col_status">
      { code }
    </td>
    <td className="col response-col_description">
      <div className="response-col_description__inner">
        <Markdown source={sampleResponse} />
      </div>
    </td>
  </tr>
}

if (sampleResponse !== null) {
  return null
}

const responseContentType = this.state.responseContentType
const activeMediaType = response.getIn(["content", activeContentType], Map({})).first()
const firstExamplesKey = examplesForMediaType.keySeq().first()
const sampleResponse = stringyf(first_examplesKey)
const render() {
  return renderActiveExampleKey()
}

renderActiveExampleKey() {
  if (sampleResponse !== undefined) {
    return renderActiveExampleKey()
  }
  return null
}

renderActiveExampleKey() {
  if (sampleResponse !== null) {
    return renderActiveExampleKey()
  }
  return null
}

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  if (sampleResponse !== undefined) {
    return renderActiveExampleKey()
  }
  return null
}

renderActiveExampleKey() {
  if (sampleResponse !== null) {
    return renderActiveExampleKey()
  }
  return null
}

renderActiveExampleKey() {
  if (sampleResponse !== undefined) {
    return renderActiveExampleKey()
First check if filename is quoted (e.g. contains space), if no, fallback to not quoted check

```javascript
let disposition = headers["content-disposition"] || headers["Content-Disposition"]
if (typeof disposition !== "undefined") {
  let responseFilename = extractFileNameFromContentDispositionHeader(disposition)
  if (responseFilename !== null) {
    download = responseFilename
  }
}

if(win.navigator && win.navigator.msSaveOrOpenBlob) {
  bodyEl = <div><a href={ href } onClick={() =>
    win.navigator.msSaveOrOpenBlob(blob, download)}>"Download file"</a></div>
} else {
  bodyEl = <div><a href={ href } download={ download }>{ "Download file" }</a></div>
}
```

If (win.navigator) {
```
bodyEl = <pre>Download headers detected but your browser does not support downloading binary via XHR (Blob).</pre>
```
} else {
```
bodyEl = <pre>Download headers detected but your browser does not support downloading binary via XHR (Blob).
\n\n// Anything else (CORS)\n</pre>
```
}
```

if (/json/i.test(contentType)) {
  try{
    body = JSON.stringify(JSON.parse(content), null, "  ")
  } catch (error) {
    body = "can't parse JSON.  Raw result:\n\n" + content
  }

  bodyEl = <HighlightCode downloadable fileName={`${downloadName}.json`} value={ body } />
```

if (/xml/i.test(contentType)) {
```
body = formatXml(content, {
        textNodesOnSameLine: true,
        indentor: "  
      })

  bodyEl = <HighlightCode downloadable fileName={`${downloadName}.xml`} value={ body } />
```

if (toLower(contentType) === "text/html" || /text/plain/.test(contentType)) {
```
bodyEl = <HighlightCode downloadable fileName={`${downloadName}.html`} value={ content } />
```

if (/^image\//i.test(contentType)) {
```
if(contentType.includes("svg")) {
    bodyEl = <div> { content }
} else {
    bodyEl = <img style={{ maxWidth: "100%" }} src={ window.URL.createObjectURL(content) } />
```

if (/^audio\//i.test(contentType)) {
```
bodyEl = <pre><audio controls><source src={ url } type={ contentType } /></audio></pre>
```

if (typeof content === "string") {
```
bodyEl = <HighlightCode downloadable fileName={`${downloadName}.txt`} value={ content } />
```

if ( content.size > 0 ) {
```
if(parsedContent) {
  // We were able to squeeze something out of content
  // in `updateParsedContent`, so let's display it
  bodyEl = <div><p class="i">Unrecognized response type; displaying content as text.</p>
  <HighlightCode downloadable fileName={`${downloadName}.txt`} value={ parsedContent } /></div>
```

else {
```
// Give up on Unrecognized response type; unable to display

  bodyEl = <p class="i">Unrecognized response type; unable to display.</p>
```
}
```

else {
```
bodyEl = null
```
}
```

```javascript
return (!bodyEl ? null : <div>
        <h5>Response body</h5>
        { bodyEl }
      </div>)
```
```
```
```javascript
let enumValue = undefined
else if (rawParam.get("required")) {
  return paramValue
}
let paramValue = parameterWithMeta ?
  parameterWithMeta.get("value") : undefined

let value

if (paramValue !== undefined) {
  value = paramValue
} else if (rawParam.get("required") &
  enumValue &
  enumValue.size) {
  value = enumValue.first()
}

if (value !== undefined) {
  this.onChangeWrapper(numberToString(value))
}
this.setDefaultValue()

this.onChangeWrapper((value, isXml = false) => {
  let { onChange, rawParam } = this.props
  let valueForUpstream

  // Coerce empty strings and empty Immutable objects to null
  if (value === "" || (value && value.size === 0)) {
    valueForUpstream = null
  } else {
    valueForUpstream = value
  }

  return onChange(rawParam, valueForUpstream, isXml)
}, this.props
}, this.props)

this.props.oas3Actions.setActiveExamplesMember({
  name: key,
  pathMethod: this.props.pathMethod,
  contextType: "parameters",
  contextName: this.getParamKey()
})
return specActions.updateEmptyParamInclusion(pathMethod, paramName, newValue)

let paramWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam) || Map()

if (!paramWithMeta ||
  paramWithMeta.get("value") !== undefined) {
  return
}

if (paramWithMeta.get("in") !== "body") {
  let newValue

  if (specSelectors.isSwagger2()) {
    newValue = paramWithMeta.get("x-example")
      || paramWithMeta.getIn(["default"])
      || paramWithMeta.getIn(["schema", "example"]) || paramWithMeta.get("example")

  } else if (specSelectors.isOAS3()) {
    const currentExampleKey = oas3Selectors.activeExamplesMember(...pathMethod, "parameters", this.getParamKey())
    newValue = paramWithMeta.getIn(["examples", currentExampleKey, "value"])
      || paramWithMeta.get("example")
      || paramWithMeta.getIn(["schema", "example"]) || paramWithMeta.getIn(["schema", "default"])
  }
  if (newValue !== undefined) {
    this.onChangeWrapper(
      List.isList(newValue) ? newValue : stringify(newValue)
    )
  }
}
```

paramWithMeta ? paramWithMeta.get("value") : ""} 
  let commonExt = showCommonExtensions ? 
    getCommonExtensions(param) : null 
  let extensions = showExtensions ? getExtensions(param) : null 
  let paramItems // undefined 
  let paramEnum // undefined 
  let paramDefaultValue // undefined 
  let paramExample // undefined 
  let isDisplayParamEnum = false
  if (param !== undefined) {
    paramItems = schema.get("items")
    if (paramItems !== undefined) {
      paramEnum = paramItems.get("enum")
      paramDefaultValue = paramItems.get("default")
    } else {
      paramEnum = schema.get("enum")
    }
  }
  if (paramEnum !== undefined && paramEnum.size > 0) {
    let paramExampleValue = param.get("example")
    if (paramExampleValue !== undefined) {
      paramExample = paramExampleValue
    }
  }
  return (<tr data-param-name={param.get("name")} data-param-in={param.get("in")}>{
    <td className="col parameters-col_name">
      <div className={required ? "parameter__name required" : "parameter__name"}>
        { param.get("name") }
        { !required ? null : <span style={{color: "red"}}>&nbsp;*</span> }
      </div>
      <div className="parameter__type">
        { type }
        { itemType && `[${itemType}]` }
        { format && <span className="prop-format">(${format})</span>}
      </div>
      <div className="parameter__deprecated">
        { isOAS3 && param.get("deprecated") ? "deprecated": null }
      </div>
      <div className="parameter__in">({ param.get("in") })</div>
      { !showCommonExtensions || !commonExt.size ? null : commonExt.map((v, key) => <ParameterExt key={`${key}-${v}`} xKey={key} xVal={v} /> )}
      { !showExtensions || !extensions.size ? null : extensions.map((v, key) => <ParameterExt key={`${key}-${v}`} xKey={key} xVal={v} /> )}
    </td>
    <td className="col parameters-col_description">
      { param.get("description") ? <Markdown source={param.get("description")} /> : null }
      { (bodyParam || !isExecute) && isDisplayParamEnum ?
        <Markdown className="parameter__enum" source={"<i>Available values</i> : " + paramEnum.map(function(item) {
          return item
        }).toArray().join(", ")}/>
      : null}
      { (bodyParam || !isExecute) && paramDefaultValue !== undefined ?
        <Markdown className="parameter__default" source={"<i>Default value</i> : " + paramDefaultValue}/>
      : null}
      {BodyParam && !isExecute && schema ? <ModelExample getComponent={getComponent} specPath={specPath.push("schema")} specSelectors={specSelectors} isExecute={false} schema={param.get("schema")} example={bodyParam} /> : null}
    </td>
    { !bodyParam && isExecute ? 
      <ParameterIncludeEmpty onChange={this.onChangeIncludeEmpty} isIncluded={specSelectors.parameterInclusionSettingFor(pathMethod, param.get("name"), param.get("in"))} isDisabled={required} param={param} />
    : null}
  </tr>)}
</showCommonExtensions || !commonExt.size ? null : commonExt.map((v, key) => <ParameterValue key={key} xVal={v} /> )}
</div>{ !showExtensions || !extensions.size ? null : extensions.map((v, key) => <ParameterValue key={key} xVal={v} /> )}
</td></tr>
</table>
"examples\", \n oas3Selectors.activeExamplesMember(...pathMethod, \n \"parameters\", \n this.getParamKey())\n ])\n getComponent=\{ getComponent\} \n }\n )\n )\n )\n }\n WEBPACK FOOTER //\n /src/core/components/parameter-row.jsx", ","import React, { Component } from \"react\"\n import PropTypes from \"prop-types\"\n \n export default class Execute extends Component \n \n static propTypes = \{ \n specSelectors: PropTypes.object.isRequired, \n specActions: PropTypes.object.isRequired, \n operation: PropTypes.object.isRequired, \n path: PropTypes.string.isRequired, \n method: PropTypes.string.isRequired, \n onExecute: PropTypes.func.isRequired \n \n \n onClick=()=>{ \n let { specSelectors, specActions, operation, path, method } = this.props \n specActions.validateParams({ path, method }) \n if ( specSelectors.validateBeforeExecute({ path, method }) ) \n if (this.props.onExecute) { \n this.props.onExecute() \n } \n }\n \n onChangeProducesWrapper = ( val ) => this.props.specActions.changeProducesValue({this.props.path, \n this.props.method}, val)\n \n render=() \n return ( \n \n Execute\n <button \n className="btn execute opblock-control__btn" \n onClick={ this.onClick } \n > \n Execute \n </button> \n )\n \n )\n )\n \n ).toArray() \n <td className="header-col">{ \n td \n \n <table className="headers">
 <thead>
 <tr className="header-row">
 <th className="header-col">Name</th>
 <th className="header-col">Description</th>
 <th className="header-col">Type</th>
 </tr>
 </thead>
 <tbody>
 {\n headers.entrySeq().map( ( [ key, header ] ) => { \n if(!Im.Map.isMap(header)) { \n return null \n } \n \n const description = header.get("description") ? header.getIn(["schema", "description"]) : "" \n const type = header.getIn(["schema", "type"]) ? header.getIn(["schema", "type"]) : header.getIn(["type"]) \n const schemaExample = header.getIn(["schema", "example"]) \n return <tr key={ key }>
 <td className="header-col">{ key }</td>
 <td className="header-col">{ header.getIn(["schema", "description"]) ? header.getIn(["schema", "description"]) : "" }
 type="Example" propVal={ schemaExample } propStyle={ propStyle } />
 \n </tr>
 }) \n </tbody>
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 type="Example" propVal={ schemaExample } propStyle={ propStyle } />
 \n </tr>
 }) \n </tbody>
 </table> \n </div>
 <hgroup className="error">
 <h4 className="errors__title">Errors</h4>
 <button className="btn errors__clear-btn" onClick={ toggleVisibility }>{ isVisible ? "Hide" : "Show" }</button>
 <Collapse isOpened={ isVisible } animated >
 <div className="errors">
 { sortedJSErrors.map((err, i) => { \n <pre className="errors-wrapper">
 { err } \n <div className="error">
 <h4 className="errors__title">Errors</h4>
 <button className="btn errors__clear-btn" onClick={ toggleVisibility }>{ isVisible ? "Hide" : "Show" }</button>
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 <td className="header-col">{ header.getIn(["schema", "description"]) ? header.getIn(["schema", "description"]) : "" }
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 <td className="header-col">{ key }</td>
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 </div>
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 </hgroup>
 </div>
 <div className="headers-wrapper">
 <h4 className="headers__title">Headers:

type = err.get("type")
if (type === "thrown" || type === "auth") {
  return <ThrownErrorItem
    key={ i }
    error={ err.get("error") || err }
    jumpToLine={jumpToLine} />
}

if (type === "spec") {
  return <SpecErrorItem
    key={ i }
    error={ err.get("error") || err }
    jumpToLine={jumpToLine} />
}

const ThrownErrorItem = ( { error, jumpToLine } ) => {
  if(!error) {
    return null
  }
  let errorLine = error.get("line")

  return (
    <div
      className="error-wrapper">
      { !error ? null :
        <div>
          <h4>{ (error.get("source") &&
            error.get("level")) ?
            toTitleCase(error.get("source")) + " " + error.get("level") : "" }
          { error.get("path") ? <small> at {error.get("path")} </small>: null }
        </div>
      }
    </div>
    )
  }

const SpecErrorItem = ( { error, jumpToLine } ) => {
  let locationMessage = null

  if(error.get("path")) {
    if(List.isList(error.get("path"))) {
      locationMessage = <small>at {error.get("path")}</small>
    } else {
      locationMessage = <small>on line { error.get("line") }</small>
    }
  } else if(error.get("line") && !jumpToLine) {
    locationMessage = <small>on line { error.get("line") }</small>
  }

  return (
    <div
      className="error-wrapper">
      { !error ? null :
        <div>
          <h4>{ toTitleCase(error.get("source")) + " " + error.get("level") }&nbsp;{ locationMessage }</h4>
          <span style={{ whiteSpace: "pre-line"}}>{ error.get("message") }</span>
          { jumpToLine ? (
            <a
              onClick={jumpToLine.bind(null, error.get("line"))}>Jump to line { error.get("line") }</a>
          ) : null }
        </div>
      }
    </div>
    )
  }

function toTitleCase(str) {
  return (str || "")
    .split("\n")
    .map(substr => substr[0].toUpperCase() + substr.slice(1))
    .join("\n")
}

ThrownErrorItem.propTypes = {
  error: PropTypes.object.isRequired,
  jumpToLine: PropTypes.func
}

ThrownErrorItem.defaultProps = {
  jumpToLine: null
}

SpecErrorItem.propTypes = {
  error: PropTypes.object.isRequired,
  jumpToLine: PropTypes.func
}

// WEBPACK FOOTER //
// ./src/core/components/errors.jsx
PropTypes.string,
  basepath: PropTypes.string,
  externalDocs: ImPropTypes.map,

  getComponent: PropTypes.func.isRequired,
  
  render() {
    let { info, url, host, basepath, getComponent, externalDocs } = this.props
    let version = info.get("version")
    let description = info.get("description")
    let title = info.get("title")
    let termsOfService = info.get("termsOfService")
    let contact = info.get("contact")
    let license = info.get("license")
    const { url:externalDocsUrl, description:externalDocsDescription } = (externalDocs || fromJS({})).toJS()

    const Markdown = getComponent("Markdown")
    const Link = getComponent("Link")
    const VersionStamp = getComponent("VersionStamp")
    const InfoUrl = getComponent("InfoUrl")
    const InfoBasePath = getComponent("InfoBasePath")
    return (
      <div className="info">
        <hgroup className="main">
          <h2 className="title" >{ title }
            { version && <VersionStamp version={version}></VersionStamp> }
          </h2>
          { host || basepath ? <InfoBasePath host={ host } basePath={ basepath } /> : null }
          { url && <InfoUrl
            getComponent={getComponent} url={url} 
          /> }
        </hgroup>

        <div className="description">
          <Markdown source={ description } />
        </div>

        { termsOfService && <div className="info__tos">
            <Link target="_blank" href={ sanitizeUrl(termsOfService) }>Terms of service</Link>
          </div>
        }

        {contact && contact.size ? <Contact
            getComponent={getComponent} data={ contact } 
          /> : null }
        {license && license.size ? <License
            getComponent={getComponent} license={ license } 
          /> : null }
        { externalDocsUrl ?
            <Link
              className="info__extdocs" target="_blank" href={sanitizeUrl(externalDocsUrl)}>{externalDocsDescription || externalDocsUrl}</Link>
        : null }

      </div>
    )
  }

Info.propTypes = {
  title: PropTypes.any,
  description: PropTypes.any,
  version: PropTypes.any,
  url: PropTypes.string
}


// WEBPACK FOOTER //
// ./src/core/components/info.jsx
export default class InfoContainer extends React.Component {

  static propTypes = {
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
  }

  onFilterChange = (e) => {
    const {target: {value}} = e
    this.props.layoutActions.updateFilter(value)
  }

  render () {
    const {specSelectors, layoutSelectors, getComponent} = this.props
    const Col = getComponent("Col")

    const isLoading = specSelectors.loadingStatus() === "loading"
    const isFailed = specSelectors.loadingStatus() === "failed"
    const filter = layoutSelectors.currentFilter()

    const inputStyle = {}
    if (isFailed) inputStyle.color = "red"
    if (isLoading) inputStyle.color = "#aaa"

    return (
      <div>
        {filter === null || filter === false ? null :
          <div className="filter-container">
            <Col className="filter wrapper" mobile={12}>
              <input className="operation-filter-input" placeholder="Filter by tag" type="text"
                     onChange={this.onFilterChange} value={filter === true || filter === "true" ? "" : filter}
                     disabled={isLoading} style={inputStyle} />
            </Col>
          </div>
        }
      </div>
    )
  }
}


// WEBPACK FOOTER //
// ./src/core/containers/filter.jsx

import React from "react"
import PropTypes from "prop-types"
import curlify from "core/curlify"

export default class Curl extends React.Component {
  static propTypes = {
    request: PropTypes.object.isRequired
  }

  handleFocus(e) {
    e.target.select()
    document.execCommand("copy")
  }

  render() {
    let { request } = this.props
    let curl = curlify(request)

    return (
      <div>
        <h4>Curl</h4>
        <div className="copy-paste">
          <textarea onFocus={this.handleFocus} readOnly="true" className="curl" value={curl} />
        </div>
      </div>
    )
  }
}
Open Source Used In SD Wan 20.6.1
import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

export default class ModelExample extends React.Component {
  static propTypes = {
    getComponent: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    schema: PropTypes.object.isRequired,
    example: PropTypes.any.isRequired,
    isExecute: PropTypes.bool,
    getConfigs: PropTypes.func.isRequired,
    specPath: ImPropTypes.list.isRequired,
  }

  constructor(props, context) {
    super(props, context)
    let { getConfigs, isExecute } = this.props
    let { defaultModelRendering } = getConfigs()

    let activeTab = defaultModelRendering

    if (defaultModelRendering !== "example" && defaultModelRendering !== "model") {
      activeTab = "example"
    }

    if(isExecute) {
      activeTab = "example"
    }

    this.state = {
      activeTab: activeTab
    }
  }

  activeTab = (e) => {
    let { target: { dataset: { name } } } = e

    this.setState({
      activeTab: name
    })
  }

  componentWillReceiveProps(nextProps) {
    if (nextProps.isExecute && !this.props.isExecute && this.props.example) {
      this.setState({
        activeTab: "example"
      })
    }
  }

  render() {
    let { getComponent, specSelectors, schema, example, isExecute, specPath } = this.props
    let { defaultModelExpandDepth } = getConfigs()
    const ModelWrapper = getComponent("ModelWrapper")
    const HighlightCode = getComponent("highlightCode")

    let isOAS3 = specSelectors.isOAS3()

    return <div
      className="model-example">
      <ul className="tab">
        <li className={ "tabitem" + (this.state.activeTab === "example" ? " active" : "") }>{isExecute ? "Edit Value" : "Example Value"}</a>
        </li>
        {
          this.state.activeTab === "model" &&
            <ModelWrapper schema={ schema }
                                                     getComponent={ getComponent }
                                                     getConfigs={ getConfigs }
                                                     specSelectors={ specSelectors }
                                                     expandDepth={ defaultModelExpandDepth }
                                                     specPath={specPath} />
        }
      </ul>
      <div>
        {
          this.state.activeTab === "example" ? (example ? example : (highlightCode value="(no example available)")) : null
        }
        {
          this.state.activeTab === "model" & &
          <ModelWrapper schema={ schema }
                                                     getComponent={ getComponent }
                                                     specSelectors={ specSelectors }
                                                     expandDepth={ defaultModelExpandDepth }
                                                     specPath={specPath} />
        }
      </div>
    </div>
  }

}


// WEBPACK FOOTER //
//
const EnumModel = ({ value, getComponent }) => {
  let ModelCollapse = getComponent("ModelCollapse")
  let collapsedContent = <span>Array [ { value.count() } ]</span>
  return <span className="prop-enum">
    Enum:<br />
    <ModelCollapse collapsedContent={
  

</span>}</span>
</span>}</span>

const specPathBase = this.getSchemaBasePath();
const isOAS3 = specSelectors.isOAS3();
const ModelWrapper = 

getComponent("ModelWrapper")
const Collapsible = getComponent("Collapsible")
const CollapsiblePath = 

getComponent("CollapsiblePath")
const JumpToPathPath = 

getComponent("JumpToPathPath")

return 

[section


{specModels ? 


<


{specPathBase, name} =>


const specPath = Im.List([...specPathBase, name])

const content = <ModelWrapper name={ name }


displayName={displayName}


schema={schema || Im.Map()}


generateActions={getComponent}


specSelectors={ specSelectors }

getConfigs = {getConfigs}


layoutSelectors = 


layoutActions = profileRoutes


const title = <span className="model-box">


<


ModelCollapse


<


collapsedContent={this.getCollapsedContent(name)}


onToggle={this.handleToggle}


</span>}</span>}</span>

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</span>}</span>
```javascript
import React, { Component, } from "react"
import PropTypes from "prop-types"
import { List } from "immutable"
import ImPropTypes from "react-immutable-proptypes"

const braceOpen = "{"
const braceClose = "}"

export default class ObjectModel extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    expanded: PropTypes.bool, onToggle: PropTypes.func, expandedDepth:
    Prop-types.number, depth: Prop-types.number, specPath: ImPropTypes.
    list.isRequired } 
  render(){
    let { schema, name, displayName, isRef, getComponent, getConfigs, depth, onToggle, expanded, specPath,
    ...otherProps } = this.props
    let { specSelectors, expandDepth } = otherProps
    const { isOAS3 } = specSelectors
    if(!schema) {
      return null
    }
    const description = schema.get("description")
    let properties = schema.get("properties")
    let additionalProperties
    let title = schema.get("title") || displayName || name
    let requiredProperties = schema.get("required")
    const JumpToPath = getComponent("JumpToPath", true)
    const Model = getComponent("Model")
    const ModelCollapse = getComponent("ModelCollapse")

    const JumpToPathSection = () => {
      return <span className="model-jump-to-path"><JumpToPath specPath={specPath} /></span>
    }
    const collapsedContent = (<span>
        <span>{ braceOpen }</span>...<span>{ braceClose }</span>
        {
          isRef ? <JumpToPathSection /> : ""
        }
    </span>)

    const anyOf = specSelectors.isOAS3() ? schema.get("anyOf") : null
    const oneOf = specSelectors.isOAS3() ? schema.get("oneOf") : null
    const not = specSelectors.isOAS3() ? schema.get("not") : null
    const titleEl = title && <span className="model-title">
      { isRef && schema.get("$$ref") && <span className="model-hint">{ schema.get("$$ref") } "
      <span className="model-title__text">{ title }</span>
    </span>

    return <span className="model">
      <ModelCollapse
        modelName={name}
        title={titleEl}
        onToggle =
        {...otherProps }
        required={isRequired} }

    </span>)

    const markdown = !showExtensions ? null : schema.entrySeq().map(
      (key, value) => {
        const normalizedValue = value
        return (<tr key={key} style={{ color: "#777", fontWeight: "normal" }}>
            <td style={propertyStyle}
              className={isDeprecated && "deprecated"}>
              { key }
            </td>
            <td style={propertyStyle}
              className={isDeprecated && "deprecated"}>
              { value }
            </td>
        </tr>)
      })

    const object = <tbody>
      { markdown }
    </tbody>
    return (<
      <table className="model"><tbody><tr style={{ color: "#666", fontWeight: "bold" }}>
        description: { description }
      </tr>
      {...otherProps }
      required={isRequired} }
    </table>
  }
}
```


```
import React, { Component } from 'react'
import PropTypes from 'prop-types'
import ImPropTypes from 'react-immutable-proptypes'

const propStyle = { color: '#999', fontStyle: 'italic' }

export default class ArrayModel extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    required: PropTypes.bool,
    expandDepth: PropTypes.number,
    specPath: ImPropTypes.list.isRequired,
    depth: PropTypes.number
  }

  render(){
    let { getComponent, getConfigs, schema, depth, expandDepth, name, displayName, specPath } = this.props
    let description = schema.get('description')
    let items = schema.get('items')
    let title = schema.get('title') || displayName || name
    let properties = schema.filter( ( v, key) => !["type", "items", "description", "$$ref"].indexOf(key) === -1 )

    const Markdown = getComponent('Markdown')
    const ModelCollapse = getComponent('ModelCollapse')
    const Model = getComponent('Model')
    const Property = getComponent('Property')

    const titleEl = title &&
      <span className="model-title">
        <span
          className="model-title__text">{ title }</span>
      </span>

    /*
    Note: we set `name={null}` in <Model>
    below because we don't want the name of the current Model passed (and displayed) as the name of the array element Model
    */

    return <span className="model">
      <ModelCollapse title={titleEl} expanded={depth <= expandDepth} collapsedContent="[...]">
        
          {
            properties.size ? properties.entrySeq().map( ( [ key, v] ) => <Property key={`${key}-${v}`} propKey={ key } propVal={ v } propStyle={ propStyle } />) : null
          }
          {
            !description ? (properties.size ? <div className="markdown"></div> : null) :
              <Markdown source={ description } />
          }

          <span>
            <Model
              { ...this.props }
              getConfigs={ getConfigs }
              specPath={specPath.push('items')} name={null} schema={ items } required={ false } depth={ depth + 1 } /></span>
        
      </ModelCollapse>
    </span>

}
```
import PropTypes from 'prop-types'
import { getExtensions } from 'core/utils'

const propStyle = { color: '#6b6b6b', fontStyle: 'italic' }

export default class Primitive extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    depth: PropTypes.number
  }

  render() {
    let { schema, getComponent, getConfigs, name, displayName, depth } = this.props
    const showExtensions = getConfigs().getShowExtensions() || false
    if (!schema) return null

    let type = schema.get('type')
    let format = schema.get('format')
    let xml = schema.get('xml')
    let enumArray = schema.get('enum')
    let title = schema.get('title') || displayName || name
    let description = schema.get('description')
    let extensions = getExtensions(schema)
    let properties = schema.properties
      .filter((v, key) => !["enum", "$$ref", "$refs", "title", "description", "$$ref$"].indexOf(key) === -1)
      .filterNot((v, key) => extensions.has(key))
    const Markdown = getComponent("Markdown")
    const EnumModel = getComponent("EnumModel")
    const Property = getComponent("Property")

    return <span className="model">
      <span className="prop">
        { name && <span className={`${depth === 1 ? "model-title" : "prop-name"}`}> {title} </span> }
        <span className="prop-type"> {type} </span>
        { format && <span className="prop-format"> ( {format} ) </span> }
        { properties.size ? properties.entrySeq().map((key, v) => <Property key={`${key}-${v}`} propKey={ key } propVal={ v } propStyle={ propStyle } />) : null }
        { showExtensions && extensions.size ? extensions.entrySeq().map((key, v) => <Property key={`${key}-${v}`} propKey={ key } propVal={ v } propStyle={ propStyle } />) : null }
        { !description ? null :
          <Markdown source={ description } />
        }
        { xml && xml.size ? (<span><br/>
          <span style={ propStyle }><br/>&nbsp;&nbsp;&nbsp;{key}: { String(v)}
        </span>).toArray() : null }
        { enumArray && <EnumModel value={ enumArray } getComponent={ getComponent } />
      </span>
    </span>
  }
}

export const Property = ({ propKey, propVal, propStyle }) => {
  return (
    <span style={propStyle}>
      <br/>{ propKey }: { String(propVal) }
    </span>
  )
}

export default Property

export default class TryItOutButton extends React.Component {
  static propTypes = {
    onTryoutClick: PropTypes.func,
    onCancelClick: PropTypes.func,
    enabled: PropTypes.bool,
  }

  static defaultProps = {
    enabled: true,
    onTryoutClick: Function.prototype,
    onCancelClick: Function.prototype,
  }

  render() {
    const { onTryoutClick, onCancelClick, enabled } = this.props
    return (<button className="btn try-out__btn cancel" onClick={ onCancelClick }>
      Cancel
    </button>)
  }
}

export default class VersionPragmaFilter extends React.PureComponent {
  static propTypes = {
    isSwagger2: PropTypes.bool.isRequired,
    isOAS3: PropTypes.bool.isRequired,
    bypass: PropTypes.bool,
    alsoShow: PropTypes.bool,
  }

  static defaultProps = {
    alsoShow: true,
    bypass: false,
  }

  render() {
    const { isSwagger2, isOAS3, bypass, alsoShow } = this.props
    return (<div className="version-pragma">
      Unable to render this definition.
      Supported version fields are <code>swagger: "2.0.0"</code> and those that match <code>openapi: 3.0.0</code> (for example, <code>openapi: 3.0.0"</code>.
    </div>)
  }
}

export default VersionPragmaFilter

from "react"
import PropTypes from "prop-types"
import { getExtensions } from "core/utils"

const propStyle = { color: '#6b6b6b', fontStyle: 'italic' }

export default class Primitive extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    name: PropTypes.string,
    display: PropTypes.string,
    depth: PropTypes.number
  }

  render() {
    let { schema, getComponent, getConfigs, name, display, depth } = this.props
    const showExtensions = getConfigs() || false
    if (!schema) return <div></div>

    let type = schema.get('type')
    let format = schema.get('format')
    let xml = schema.get('xml')
    let enumArray = schema.get('enum')
    let title = schema.get('title') || display || name
    let description = schema.get('description')
    let extensions = getExtensions(schema)
    let properties = schema.properties
      .filter((v, key) => !["enum", "$$ref", "$refs", "title", "description", "$$ref$"].indexOf(key) === -1)
      .filterNot((v, key) => extensions.has(key))
    const Markdown = getComponent("Markdown")
    const EnumModel = getComponent("EnumModel")
    const Property = getComponent("Property")

    return <span className="model">
      <span className="prop">
        { name && <span className="model-title"> {title} </span> }
        <span className="prop-type"> {type} </span>
        { format && <span className="prop-format"> ( {format} ) </span> }
        { properties.size ? properties.entrySeq().map((key, v) => <Property key={`${key}-${v}`} propKey={ key } propVal={ v } propStyle={ propStyle } />) : null }
        { showExtensions && extensions.size ? extensions.entrySeq().map((key, v) => <Property key={`${key}-${v}`} propKey={ key } propVal={ v } propStyle={ propStyle } />) : null }
        { !description ? null :
          <Markdown source={ description } />
        }
        { xml && xml.size ? (<span><br/>
          <span style={ propStyle }><br/>&nbsp;&nbsp;&nbsp;{key}: { String(v)}
        </span>).toArray() : null }
        { enumArray && <EnumModel value={ enumArray } getComponent={ getComponent } />
      </span>
    </span>
  }
}
The provided definition does not specify a valid version field. Please indicate a valid Swagger or OpenAPI version field. Supported version fields are <code>swagger: {"2.0.0"}</code> and those that match <code>openapi: 3.0.0</code> (for example, <code>openapi: 3.0.0</code>).
getComponent("VersionPragmaFilter")

let Operations = getComponent("operations", true)
let Models = getComponent("Models", true)
let Row = getComponent("Row")
let Col = getComponent("Col")
let Errors = getComponent("errors", true)
const ServersContainer = getComponent("ServersContainer", true)
const AuthorizeBtnContainer = getComponent("AuthorizeBtnContainer", true)
const FilterContainer = getComponent("FilterContainer", true)
let isSwagger2 = specSelectors.isSwagger2()
let isOAS3 = specSelectors.isOAS3()
const SpecSelectors = specSelectors.specStr()
const loadingStatus = specSelectors.loadingStatus()

if(loadingStatus === "loading") {
  loadingMessage = <div className="info">
    <div className="loading-container">
      <div className="loading"></div>
    </div>
  </div>
}

if(loadingStatus === "failed") {
  loadingMessage = <div className="info">
    <div className="loading-container">
      <h4 className="title">Failed to load API definition.</h4>
      <Errors />
    </div>
  </div>
}

if (loadingStatus === "failedConfig") {
  const lastErr = errSelectors.lastError()
  const lastErrMsg = lastErr ? lastErr.get("message") : ""
  loadingMessage = <div className="info" style={{ maxWidth: "880px", marginLeft: "auto", marginRight: "auto", textAlign: "center" }}>
    <div className="loading-container">
      <h4 className="title">Failed to load remote configuration.</h4>
      <p>{lastErrMsg}</p>
    </div>
  </div>
}

if(!loadingMessage && isSpecEmpty) {
  loadingMessage = <h4>No API definition provided.</h4>
}

if(loadingMessage) {
  return <div className="swagger-ui">
    <div className="loading-container">
      {loadingMessage}
    </div>
  </div>
}

const servers = specSelectors.servers()
const schemes = specSelectors.schemes()

const hasServers = servers && servers.size
const hasSchemes = schemes && schemes.size
const hasSecurityDefinitions = !!specSelectors.securityDefinitions()

const hasServers = servers && servers.size
const hasSchemes = schemes && schemes.size
const hasSecurityDefinitions = !!specSelectors.securityDefinitions()

return (

  <div className='swagger-ui'>
    <SvgAssets />
    <VersionPragmaFilter isSwagger2={isSwagger2} isOAS3={isOAS3} alsoShow={<Errors/>}>
      <Errors/>
      <Row className="information-container">
        <Col mobile={12}>
          <InfoContainer/>
        </Col>
      </Row>

      {hasServers || hasSchemes || hasSecurityDefinitions
      ? (
        <div className="scheme-container">
          <Col className="schemes wrapper" mobile={12} desktop={12}>
            {hasServers ? (<ServersContainer />) : null}
            {hasSchemes ? (<SchemesContainer />) : null}
            {hasSecurityDefinitions ? (<AuthorizeBtnContainer />) : null}
          </Col>
        </div>
      ) : null}

      <FilterContainer/>

      <Row>
        <Col mobile={12} desktop={12} >
          <Operations/>
        </Col>
      </Row>
      <Row>
        <Col mobile={12} desktop={12} >
          <Models/>
        </Col>
      </Row>
    </VersionPragmaFilter>
  </div>
)
open source used in SDWan 20.6.1

```
...export class JsonSchema_string extends Component {
  static propTypes = JsonSchemaPropShape
  static defaultProps = JsonSchemaDefaultProps
  onChange = (e) => {
    const value = this.props.schema["type"] === "file" ? e.target.files[0] : e.target.value
    this.props.onChange(value, this.props.keyName)
  }

  render() {
    let { getComponent, value, schema, errors, required, description, disabled } = this.props
    if (value) {
      return (<
        {getComponent("Input")} type={ describedType } className={ errors.length ? "invalid" : ""} value={value} onChange={this.onChange} disabled={disabled} />
      )
    }

    return (null)
  }
}

export class JsonSchema_array extends PureComponent {

  static propTypes = JsonSchemaPropShape
  static defaultProps = JsonSchemaDefaultProps

  constructor(props, context) {
    super(props, context)
    this.state = { value: valueOrEmptyList(props.value) }
  }

  componentWillReceiveProps(props) {
    if (props.value !== this.state.value)
      this.setState({ value: props.value })
  }

  onChange = () => this.props.onChange(this.state.value)

  onItemChange = (itemVal, i) => {
    this.setState(state => ({
      value: state.value.set(i, itemVal)
    }), this.onChange)
  }

  removeItem = (i) => {
    this.setState(state => ({
      value: state.value.remove(i)
    }), this.onChange)
  }

  addItem = () => {
    this.setState(state => {
      state.value = valueOrEmptyList(state.value)
      return {
        value: state.value.push("")
      }
    }, this.onChange)
  }

  onEnumChange = (value) => {
    this.setState(() => {
      value
    }, this.onChange)
  }

  render() {
    let { getComponent, required, schema, errors, fn, disabled } = this.props
    errors = errors.toJS ? errors.toJS() : []
    let itemSchema = fn.inferSchema(schema.items)

    const JsonSchemaForm = getComponent("JsonSchemaForm")
    const Button = getComponent("Button")

    return (null)
  }
}

export class JsonSchema_boolean extends Component {
  static propTypes = JsonSchemaPropShape
  static defaultProps = JsonSchemaDefaultProps

  onEnumChange = (value) => this.props.onChange(value)
  render() {
    let { getComponent, value, errors, schema, required, disabled } = this.props
    errors = errors.toJS ? errors.toJS() : []
    return (null)
  }

```

const Select = getComponent("Select")

return (<Select className={ errors.length ? "invalid" : ""}
          title={ errors.length ? errors : ""}
          value={ String(value) }
          disabled={disabled}
          allowEmptyValue={ !schema.enum || !required }
          onChange={ this.onEnumChange }/>

})

export class JsonSchema_object extends PureComponent {
  constructor() {
    super()
  }

  static propTypes = JsonSchemaPropShape
  static defaultProps = JsonSchemaDefaultProps

  onChange = (value) => {
    this.props.onChange(value)
  }

  handleOnChange = e => {
    const inputValue = e.target.value
    this.onChange(inputValue)
  }

  render() {
    let {
      getComponent,
      value,
      errors,
      disabled
    } = this.props

    const TextArea = getComponent("TextArea")

    return (
      <div>
        <TextArea
          className={cx({ invalid: errors.size })}
          title={ errors.size ? errors.join(", ") : ""}
          value={value}
          disabled={disabled}
          onChange={ this.handleOnChange }/>
      </div>
    )

  }
}

function valueOrEmptyList(value) {
  return List.isList(value) ? value : List()
}

webpackContext(id, req) {
  return __webpack_require__(webpackContextResolve(req));
}

webpackContextResolve(req) {
  var id = map[req];
  if (!(id + 1)) throw new Error("Cannot find module '" + req + "'.");
  return id;
}

webpackContext.keys = function webpackContextKeys() {
  return Object.keys(map);
}

function webpackContext(resolve, id, req) {
  return __webpack_require__(webpackContextResolve(req));
}

function webpackContextResolve(id, req) {

}
1.2057 jnc 1.2

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1.2058 neo4j-procedure-api 4.1.7

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2074 libwebsockets 2.1.0

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1.2075 commons-lang3 3.8.1

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1.2076 base-passwd 3.5.44

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A set of interfaces for programmable models and their helper classes, many derived from Swagger Core library. These interfaces can be used to define OpenAPI document programmatically.

The behaviour of methods inherited from java.lang.Object are undefined by the MicroProfile OpenAPI specification.

Example:
<pre>
public class MyOASModelReaderImpl implements OASModelReader {

    {@literal @}Override
    public OpenAPI buildModel() {
        return OASFactory.createObject(OpenAPI.class)
            .info(OASFactory.createObject(Info.class)
                .title("AirlinesRatingApp API")
                .version("1.0")
                .termsOfService("http://airlinesratingapp.com/terms")
                .contact(OASFactory.createObject(Contact.class)
                    .name("AirlinesRatingApp API Support")
                    .url("http://exampleurl.com/contact")
                    .email("techsupport{@literal @}airlinesratingapp.com")
                )
                .license(OASFactory.createObject(License.class)
                    .name("Apache 2.0")
                    .url("http://www.apache.org/licenses/LICENSE-2.0.html")
            )
    }

</pre>
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* under the License.
*/
/**
 * A set of annotations to represent metadata about the API, including license information
 * and contact information of the exposed API.
 * <p>
 * Example usage:
 * <pre>
 * {@literal @}ApplicationPath("/
 * {@literal @}OpenAPIDefinition(
 * info = {@literal @}Info(
 * title="AirlinesRatingApp API",
 * version = "1.0",
 * termsOfService = "http://airlinesratingapp.com/terms",
 * contact = {@literal @}Contact(
 * name = "AirlinesRatingApp API Support",
 * url = "http://exampleurl.com/contact",
 * email = "techsupport@airlinesratingapp.com"),
 * license = {@literal @}License(
 * name = "Apache 2.0",
 * url = "http://www.apache.org/licenses/LICENSE-2.0.html")))
 * </pre>
 */

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/**
 * A set of interfaces of programmable models to represent metadata about the API,
 * including license information and contact information of the exposed API.

* The behaviour of methods inherited from java.lang.Object are undefined by the MicroProfile OpenAPI specification.
* Example:
* ```java
public class MyOASModelReaderImpl implements OASModelReader {
*  *@Override*
*  public OpenAPI buildModel() {
*   return OASFactory.createObject(OpenAPI.class)
*       .info(OASFactory.createObject(Info.class)
*           .title("AirlinesRatingApp API")
*           .version("1.0")
*           .termsOfService("http://airlinesratingapp.com/terms")
*           .contact(OASFactory.createObject(Contact.class)
*               .name("AirlinesRatingApp API Support")
*               .url("http://exampleurl.com/contact")
*               .email("techsupport[@ literal @]airlinesratingapp.com")
*           ).license(OASFactory.createObject(License.class)
*               .name("Apache 2.0")
*               .url("http://www.apache.org/licenses/LICENSE-2.0.html"))
*  }  
*} */
```

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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*/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/JavaVersion.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/InstanceCreator.java

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jar/com/google/gson/stream/JsonWriter.java
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jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonReader.java

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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */ 

#include <config.h> 
#include <stdio.h> 
#include <sys/types.h> 
#include <pwd.h> 
#include <grp.h> 

#include "system.h" 
#include "chown-core.h" 
#include "error.h" 
#include "ignore-value.h" 
#include "quote.h" 
#include "root-dev-ino.h" 
#include "xfts.h" 

#define FTSENT_IS_DIRECTORY(E) 

  ((E)->fts_info == FTS_D) 

  || (E)->fts_info == FTS_DC 

  || (E)->fts_info == FTS_DP 

  || (E)->fts_info == FTS_DNR) 

enum RCH_status 

{ /* we called fchown and close, and both succeeded */
RC_ok = 2,
/* required_uid and/or required_gid are specified, but don't match */
RC_excluded,

/* SAME_INODE check failed */
RC_inode_changed,

/* open/fchown isn't needed, isn't safe, or doesn't work due to
   permissions problems; fall back on chown */
RC_do_ordinary_chown,

/* open, fstat, fchown, or close failed */
RC_error
};

extern void
chopt_init (struct Chown_option *chopt)
{
  chopt->verbosity = V_off;
  chopt->root_dev_ino = NULL;
  chopt->affect_symlink_referent = true;
  chopt->recurse = false;
  chopt->force_silent = false;
  chopt->user_name = NULL;
  chopt->group_name = NULL;
}

extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
  /* Deliberately do not free chopt->user_name or ->group_name.
     They're not always allocated. */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc'd memory,
   and return it. If there's no corresponding group name, use the decimal
   representation of the ID. */

extern char *
gid_to_name (gid_t gid)
{
  char buf[INT_BUFSIZE_BOUND (intmax_t)];
  struct group *grp = getgrgid (gid);
  return xstrdup (grp ? grp->gr_name
               : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
               : umaxtostr (gid, buf));
}
/* Convert the numeric user-id, UID, to a string stored in xmalloc'd memory,
and return it. If there's no corresponding user name, use the decimal
representation of the ID. */
extern char *
uid_to_name (uid_t uid)
{
char buf[INT_BUFSIZE_BOUND (intmax_t)];
struct passwd *pwd = getpwuid (uid);
return xstrdup (pwd ? pwd->pw_name
: TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
: umaxtostr (uid, buf));
}
/* Allocate a string representing USER and GROUP. */
static char *
user_group_str (char const *user, char const *group)
{
char *spec = NULL;
if (user)
{
if (group)
{
spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
}
else
{
spec = xstrdup (user);
}
}
else if (group)
{
spec = xstrdup (group);
}
return spec;
}
/* Tell the user how/if the user and group of FILE have been changed.
If USER is NULL, give the group-oriented messages.
CHANGED describes what (if anything) has happened. */
static void
describe_change (const char *file, enum Change_status changed,

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char const *old_user, char const *old_group,
char const *user, char const *group)
{
    const char *fmt;
    char *old_spec;
    char *spec;

    if (changed == CH_NOT_APPLIED)
    {
        printf (_("neither symbolic link %s nor referent has been changed\n"),
                quote (file));
        return;
    }

    spec = user_group_str (user, group);
    old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

    switch (changed)
    {
    case CH_SUCCEEDED:
        fmt = (user ? _("changed ownership of %s from %s to %s\n")
                : group ? _("changed group of %s from %s to %s\n")
                : _("no change to ownership of %s\n"));
        break;
    case CH_FAILED:
        if (old_spec)
        {
            fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
                    : group ? _("failed to change group of %s from %s to %s\n")
                    : _("failed to change ownership of %s\n"));
        }
        else
        {
            fmt = (user ? _("failed to change ownership of %s to %s\n")
                    : group ? _("failed to change group of %s to %s\n")
                    : _("failed to change ownership of %s\n"));
            free (old_spec);
            old_spec = spec;
            spec = NULL;
        }
        break;
    case CH_NO_CHANGE_REQUESTED:
        fmt = (user ? _("ownership of %s retained as %s\n")
                : group ? _("group of %s retained as %s\n")
                : _("ownership of %s retained\n"));
        break;
    default:
        abort();
    }
printf (fmt, quote (file), old_spec, spec);

free (old_spec);
free (spec);
}

/* Change the owner and/or group of the FILE to UID and/or GID (safely)
only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
of FILE. ORIG_ST must be the result of 'stat'ing FILE.

The 'safely' part above means that we can't simply use chown(2),
since FILE might be replaced with some other file between the time
of the preceding stat/lstat and this chown call. So here we open
FILE and do everything else via the resulting file descriptor.
We first call lstat and verify that the dev/inode match those from
the preceding stat call, and only then, if appropriate (given the
required_uid and required_gid constraints) do we call fchown.

Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a
special file that might have undesirable side effects when opening.
In this case the caller can use the less-safe ordinary chown.

Return one of the RCH_status values. */

static enum RCH_status

restricted_chown (int cwd_fd, char const *file,
struct stat const *orig_st,
uid_t uid, gid_t gid,
uid_t required_uid, gid_t required_gid)
{
enum RCH_status status = RC_ok;
struct stat st;
int open_flags = O_NONBLOCK | O_NOCTTY;
int fd;

if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
    return RC_do_ordinary_chown;

if (! S_ISREG (orig_st->st_mode))
    {
    if (S_ISDIR (orig_st->st_mode))
        open_flags |= O_DIRECTORY;
    else
        return RC_do_ordinary_chown;
    }
fd = openat (cwd_fd, file, O_RDONLY | open_flags);
if (! (0 <= fd
   || (errno == EACCES && S_ISREG (orig_st->st_mode)
       && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags))))))
return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

if (fstat (fd, &st) != 0)
    status = RC_error;
else if (! SAME_INODE (*orig_st, st))
    status = RC_inode_changed;
else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)
    && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
{
    if (fchown (fd, uid, gid) == 0)
    {
        status = (close (fd) == 0
                    ? RC_ok : RC_error);
        return status;
    }
    else
    {
        status = RC_error;
    }
}

int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;
}

/* Change the owner and/or group of the file specified by FTS and ENT
   to UID and/or GID as appropriate.
   If REQUIRED_UID is not -1, then skip files with any other user ID.
   If REQUIRED_GID is not -1, then skip files with any other group ID.
   CHOPT specifies additional options.
   Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
                   uid_t uid, gid_t gid,
                   uid_t required_uid, gid_t required_gid,
                   struct Chown_option const *chopt)
{
    char const *file_full_name = ent->fts_path;
    char const *file = ent->fts_accpath;
    struct stat const *file_stats;
    struct stat stat_buf;
    bool ok = true;

bool do_chown;
bool symlink_changed = true;

switch (ent->fts_info)
{
    case FTS_D:
        if (chopt->recurse)
        {
            if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
            {
                /* This happens e.g., with "chown -R --preserve-root 0 /"
                 and with "chown -RH --preserve-root 0 symlink-to-root". */
                ROOT_DEV_INO_WARN (file_full_name);
                /* Tell fts not to traverse into this hierarchy. */
                fts_set (fts, ent, FTS_SKIP);
                /* Ensure that we do not process "/" on the second visit. */
                ignore_value (fts_read (fts));
                return false;
            }
            return true;
        }
        break;

case FTS_DP:
        if (! chopt->recurse)
            return true;
        break;

case FTS_NS:
    /* For a top-level file or directory, this FTS_NS (stat failed)
       indicator is determined at the time of the initial fts_open call.
       With programs like chmod, chown, and chgrp, that modify
       permissions, it is possible that the file in question is
       accessible when control reaches this point. So, if this is
       the first time we've seen the FTS_NS for this file, tell
       fts_read to stat it "again". */
    if (ent->fts_level == 0 && ent->fts_number == 0)
    {
        ent->fts_number = 1;
        fts_set (fts, ent, FTS_AGAIN);
        return true;
    }
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot access %s"),
            quote (file_full_name));
    ok = false;
    break;
case FTS_ERR:
    if (!chopt->force_silent)
        error (0, ent->fts_errno, "%s", quote (file_full_name));
    ok = false;
    break;

case FTS_DNR:
    if (!chopt->force_silent)
        error (0, ent->fts_errno, _("cannot read directory %s"),
                quote (file_full_name));
    ok = false;
    break;

case FTS_DC: /* directory that causes cycles */
    if (cycle_warning_required (fts, ent))
        emit_cycle_warning (file_full_name);
        return false;
    break;

default:
    break;
}

if (!ok)
{
    do_chown = false;
    file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1
         && chopt->verbosity == V_off
         && !chopt->root_dev_ino
         && !chopt->affect_symlink_referent)
{
    do_chown = true;
    file_stats = ent->fts_statp;
}
else
{
    file_stats = ent->fts_statp;

    /* If this is a symlink and we're dereferencing them,
       stat it to get info on the referent. */
    if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
        if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
if (! chopt->force_silent)
    error (0, errno, _("cannot dereference %s"),
          quote (file_full_name));
    ok = false;
}

file_stats = &stat_buf;
}

do_chown = (ok
    && (required_uid == (uid_t) -1
        || required_uid == file_stats->st_uid)
    && (required_gid == (gid_t) -1
        || required_gid == file_stats->st_gid));
}

/* This happens when chown -LR --preserve-root encounters a symlink-to/. */
if (ok
    && FTSENT_IS_DIRECTORY (ent)
    && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
}

if (do_chown)
{
    if ( ! chopt->affect_symlink_referent)
    {
        ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);

        /* Ignore any error due to lack of support; POSIX requires
         * this behavior for top-level symbolic links with -h, and
         * implies that it's required for all symbolic links. */
        if (!ok && errno == EOPNOTSUPP)
        {
            ok = true;
            symlink_changed = false;
        }
    }
    else
    {
        /* If possible, avoid a race condition with --from=O:G and without the
         * (-h) --no-dereference option. If fts's stat call determined
         * that the uid/gid of FILE matched the --from=O:G-selected
         * owner and group IDs, blindly using chown(2) here could lead
         * chown(1) or chgrp(1) mistakenly to dereference a *symlink*
         * to an arbitrary file that an attacker had moved into the
     

place of FILE during the window between the stat and
cchown(2) calls. If FILE is a regular file or a directory
that can be opened, this race condition can be avoided safely. */

enum RCH_status err
    = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
        required_uid, required_gid);

switch (err)
{
    case RC_ok:
        break;

    case RC_do_ordinary_chown:
        ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
        break;

    case RC_error:
        ok = false;
        break;

    case RC_inode_changed:
        /* FIXME: give a diagnostic in this case? */
    case RC_excluded:
        do_chown = false;
        ok = false;
        break;

    default:
        abort ();
        break;
}

/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do *not* restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */

if (do_chown && !ok && !chopt->force_silent)
    error (0, errno, (uid != (uid_t) -1
        ? _("changing ownership of %s")
        : _("changing group of %s")),
        quote (file_full_name));

if (chopt->verbosity != V_off)
    

bool changed =
((do_chown && ok && symlink_changed)
 && !(uid == (uid_t) -1 || uid == file_stats->st_uid)
 && (gid == (gid_t) -1 || gid == file_stats->st_gid));

if (changed || chopt->verbosity == V_high)
{
    enum Change_status ch_status =
        (!ok ? CH_FAILED
            : !symlink_changed ? CH_NOT_APPLIED
            : !changed ? CH_NO_CHANGE_REQUESTED
            : CH_SUCCEEDED);
    char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
    char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
    describe_change (file_full_name, ch_status,
        old_usr, old_grp,
        chopt->user_name, chopt->group_name);
    free (old_usr);
    free (old_grp);
}

if ( ! chopt->recurse)
    fts_set (fts, ent, FTS_SKIP);

return ok;
}

/* Change the owner and/or group of the specified FILES.
 BIT_FLAGS specifies how to treat each symlink-to-directory
 that is encountered during a recursive traversal.
 CHOPT specifies additional options.
 If UID is not -1, then change the owner id of each file to UID.
 If GID is not -1, then change the group id of each file to GID.
 If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only
 files with user ID and group ID that match the non-( -1) value(s).
 Return true if successful. */
extern bool
chown_files (char **files, int bit_flags,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid,
    struct Chown_option const *chopt)
{
    bool ok = true;

    /* Use lstat and stat only if they're needed. */
    int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1
        || chopt->affect_symlink_referent

|| chopt->verbosity != V_off)  
? 0  
: FTS_NOSTAT);  

FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);  

while (1)  
{  
    FTSENT *ent;  
    
    ent = fts_read (fts);  
    if (ent == NULL)  
    {  
        if (errno != 0)  
        {  
            /* FIXME: try to give a better message */  
            if (! chopt->force_silent)  
                error (0, errno, _("fts_read failed"));  
            ok = false;  
            break;  
        }  
    }  
    ok &= change_file_owner (fts, ent, uid, gid,  
                required_uid, required_gid, chopt);  
  }  

if (fts_close (fts) != 0)  
{  
    error (0, errno, _("fts_close failed"));  
    ok = false;  
}  

return ok;  
}  
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /opt/ws_local/PERMITS_SQL/1068232327_1594323982.19/0/reactor-core-3-3-5-release-sources-1-jar/reactor/core/publisher/InnerProducer.java
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* /opt/cola/permits/1111302167_1606896613.8/0/opensaml-saml-api-3-3-1-sources-1.jar/org/opensaml/saml/metadata/criteria/entity/EvaluableEntityDescriptorCriterion.java
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* /opt/cola/permits/1111302167_1606896613.8/0/opensaml-saml-api-3-3-1-sources-1.jar/org/opensaml/saml/common/messaging/context/navigate/EntityDescriptorLookupFunction.java

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\texttt{analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java},
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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java
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1.2105 libsepol 2.7-1
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1.2106 run-postinsts 1.0
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1.2107 dagger-compiler 2.7
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1.2119 gdbm 1.14.1

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- **libpcap**: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  - http://www.tcpdump.org/
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  - http://code.google.com/p/libdnet/
- **PCRE**: Perl-compatible regular expressions. PCRE is part of Nmap’s version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  - http://www.pcre.org/
- **liblua**: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  - http://www.lua.org/
- **OpenSSL**: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  - http://www.openssl.org/
- **LIBLINEAR**: Used for IPv6 OS classification.
  - http://www.csie.ntu.edu.tw/~cjlin/liblinear/
- **libsvn**: The Subversion library, used by the updater program nmap-update.
  - http://subversion.apache.org/

On Windows only, Nmap uses:

- **WinPcap**: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/wincap.
  - http://www.winpcap.org/

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Zenmap and Ndiff require:
  o Python. The binary distributions of Nmap include a Python interpreter
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  o Various X.org libraries. These were built using MacPorts.
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THE BASIC LIBRARY FUNCTIONS

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THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.2129 python-daemonize 2.4.7

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1.2130 jdk-zulu 11.41+23
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*
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include/GL/wglxext.h :

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Jean-loup Gailly        Mark Adler
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/DispatcherServlet.java
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 */
jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistry.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMessageConverterMethodArgumentResolver. java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/view/XmlViewResolver.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/resource/ContentVersionStrategy.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/View.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/config/TilesConfigurerBeanDefinitionParser.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/tags/form/InputTag.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementBodyTag.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/HandlerExecutionChain.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/handler/HandlerMethodMappingNamingStrategy.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/HandlerExceptionResolver.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/support/WebContentGenerator.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/config/annotation/ViewResolverRegistry.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/config/FreeMarkerConfigurerBeanDefinitionParser.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/ParamTag.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/tags/form/AbstractMultiCheckedElementTag.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources.jar/org/springframework/web/servlet/tags/form/SelectTag.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/view/AbstractTemplateView.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java
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* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/config/annotation/DelegatingWebMvcConfiguration.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/resource/ResourceTransformer.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/handler/MatchableHandlerMapping.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/view/ViewResolverComposite.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/view/tiles3/SpringLocaleResolver.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/handler/RequestMatchResult.java
* /opt/cola/permits/1141637639_1615091363.25/0/spring-webmvc-5-1-17-release-sources-jar/org/springframework/web/servlet/mvc/Controller.java

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*/
/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*  
* <p>The XSLT Source object is supplied as a parameter in the model and then
* [ @link #locateSource detected ] during response rendering. Users can either specify
* a specific entry in the model via the [ @link #setSourceKey sourceKey ] property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See [ @link #getSourceTypes() here]
* for more details.
*  
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure [ @link #setOutputProperties output properties]
* to be passed to the Transformer.
*  
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/
1.2133 angular-mocks 1.5.8

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1.2134 elasticsearch-transport 5.6.4

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1.2136 wget 1.19.5

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.2138 shiro-crypto-hash 1.7.1

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 */
1.2143 sbsigntool 1.3

1.2143.1 Available under license:

sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.2145 okhttp 3.9.0

1.2146 jackson-data 1.9.13.redhat-00006

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1.2147 python-ply 3.11 1

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1.2148 libgcrypt 1.8.6

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  jar/io/grpc/ConnectivityState.java
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jar/io/grpc/InternalServiceProviders.java
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* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/io/grpc/ManagedChannelBuilder.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/io/grpc/Compressor.java

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1.2177 jackson 2.9.7

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1.2185 angular-messages 1.5.8

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1.2186 commons-beanutils 1.8.3

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* /opt/ws_local/PERMITS_SQL/1021461995_1591378228.4/0/opensaml-security-api-3-3-1-sources-jar/org/opensaml/security/criteria/UsageCriterion.java
*/
1.2188 lua 5.3.5
1.2189 maven-war-plugin 2.5

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1.2193 python-ntlm3 1.0.2

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1.2195 django-extensions 1.7.9

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1.2196 angular-filter 0.5.11

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Michiel Sikkes <michiel@eyesopened.nl>
Michael Vogt <michael.vogt@ubuntu.com>
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**1.2202 openssh 8.2p1**

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* @version 3.0 (December 2000)

* Optimised ANSI C code for the Rijndael cipher (now AES)

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/Handshake.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/MediaType.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/Authenticator.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/framed/ErrorCode.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/framed/Http2.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/framed/Hpack.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/framed/HeadersMode.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/framed/NamedRunnable.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/framed/HttpStream.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/framed/HeaderRegion.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/framed/Http1xStream.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/framed/Http2xStream.java

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* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2.7.4-sources-2.jar/com/squareup/okhttp/internal/framed/Spdy3.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2.7.4-sources-2.jar/com/squareup/okhttp/internal/framed/HeaderParser.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2.7.4-sources-2.jar/com/squareup/okhttp/internal/framed/HttpDate.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2.7.4-sources-2.jar/com/squareup/okhttp/internal/framed/FrameWriter.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2.7.4-sources-2.jar/com/squareup/okhttp/internal/framed/FramedStream.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2.7.4-sources-2.jar/com/squareup/okhttp/internal/framed/FrameReader.java
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* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/OptionalMethod.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/io/RealConnection.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/tls/CertificateChainCleaner.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/Headers.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/tls/DistinguishedNameParser.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/http/HttpEngine.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/Connection.java
* /opt/cola/permits/1167929050_1621887478.16/0/okhttp-2-7-4-sources-2-jar/com/squareup/okhttp/internal/OkHostnameVerifier.java

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1.2205 super-csv 2.4.0

1.2206 mawk 1.3.3 17ubuntu3

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Current team:

* Ashley Whetter: maintainer, contributor
* Bryce Guinta: maintainer, contributor
* Claudiu Popa: maintainer, contributor
* Cara Vinson: astroid committer.
* Guillaume Peillex: committer
* ukasz Rogalski: committer.
* Roy Williams (Lyft): committer

added check for implementing __eq__ without implementing __hash__.
Added Python 3 check for accessing Exception.message.
Added Python 3 check for calling encode/decode with invalid codecs.
Added Python 3 check for accessing sys.maxint.
Added Python 3 check for bad import statements.
Added Python 3 check for accessing deprecated methods on the 'string' module, various patches.

* Dmitry Pribysh: committer

multiple-imports, not-iterable, not-a-mapping, various patches.

* Jim Robertson: committer
Ex-maintainers:

* Sylvain Thenault (Logilab): main author / maintainer

* Torsten Marek (Google): committer / contributor

We would not be here without folks that contributed patches, pull requests, issues and their time to pylint. We're incredibly grateful to all of these contributors:

* Daniel Balparda (Google): GPyLint maintainer (Google's pylint variant), various patches

* Martin Pool (Google): warnings for anomalous backslashes, symbolic names for messages (like 'unused'), etc

* Alexandre Fayolle (Logilab): TkInter gui, documentation, debian support

* Julien Cristau, Emile Anclin (Logilab): python 3 support

* Sandro Tosi: Debian packaging

* Mads Kiilerich, Boris Feld, Bill Wendling, Sebastian Ulrich: various patches

* Brian van den Broek: windows installation documentation

* Amaury Forgeot d'Arc: check names imported from a module exists in the module

* Benjamin Niemann: allow block level enabling/disabling of messages

* Nathaniel Manista: suspicious lambda checking

* David Shea: invalid sequence and slice index

* Carl Crowder: don't evaluate the value of arguments for 'dangerous-default-value'


* David Lindquist: logging-format-interpolation warning.

* Brett Cannon: Port source code to be Python 2/3 compatible, Python 3 checker.
* Vlad Temian: redundant-unittest-assert and the JSON reporter.

* Cosmin Poiean: unichr-builtln and improvements to bad-open-mode.

* Viorel tirbu: intern-builtln warning.

* Dan Goldsmith: support for msg-template in HTML reporter.

* Chris Rebert: unidiomatic-typecheck.

* Steven Myint: duplicate-except.


* Bruno Daniel: check_docs extension.

* James Morgensen: ignored-modules option applies to import errors.

* Cezar Elnazli: deprecated-method

* Stphane Wirtel: nonlocal-without-binding

* Laura Medioni (Logilab, on behalf of the CNES): misplaced-comparison-constant, no-classmethod-decorator, no-staticmethod-decorator, too-many-nested-blocks, too-many-boolean-expressions, unneeded-not, wrong-import-order, ungrouped-imports, wrong-import-position, redefined-variable-type

* Aru Sahni: Git ignoring, regex-based ignores

* Mike Frysinger: contributor.

* Moiss Lpe (Vauxoo): Support for deprecated-modules in modules not installed, Refactor wrong-import-order to integrate it with `isort` library
  Add check too-complex with mccabe for cyclomatic complexity
  Refactor wrong-import-position to skip try-import and nested cases
  Add consider-merging-isinstance, superfluous-else-return
  Fix consider-using-ternary for 'True and True and True or True' case

* Luis Escobarc (Vauxoo), Moiss Lpe (Vauxoo): Add bad-docstring-quotes and docstring-first-line-empty

* Yannick Brehon: contributor.

* Glenn Matthews: autogenerated documentation for optional extensions, bug fixes and enhancements for docparams (ne check_docs) extension

* Elias Dorneles: minor adjust to config defaults and docs

* Yuri Bochkarev: Added epytext support to docparams extension.
* Alexander Todorov: added new error conditions to 'bad-super-call',
  Added new check for incorrect len(SEQUENCE) usage,
  Added new extension for comparison against empty string constants,
  Added new extension which detects comparing integers to zero,
  Added new useless-return checker,
  Added new try-except-raise checker

* Erik Eriksson - Added overlapping-except error check.

* Anthony Foglia (Google): Added simple string slots check.

* Derek Gustafson: contributor

* Petr Pulc: require whitespace around annotations

* John Paraskevopoulos: add 'differing-param-doc' and 'differing-type-doc'

* Martin von Gagern (Google): Added 'raising-format-tuple' warning.

* Ahirnish Pareek, 'keyword-arg-before-var-arg' check

* Daniel Miller: contributor.

* Bryce Guinta: contributor

* Martin Bati: contributor
  Added new check for shallow copy of os.environ

* Jacques Kvam: contributor

* Brian Shaginaw: prevent error on exception check for functions

* Ioana Tagirta: fix bad thread instantiation check

* Reverb Chu: contributor

* Tobias Hernstig: contributor

* Konstantin Manna: contributor

* Andreas Freimuth: fix indentation checking with tabs

* Renat Galimov: contributor

* Thomas Snowden: fix missing-docstring for inner functions

* Mitchell Young: minor adjustment to docparams
* Marianna Polatoglou: minor contribution for wildcard import check

* Ben Green: contributor

* Benjamin Freeman: contributor

* Fureigh: contributor

* Jace Browning: updated default report format with clickable paths

* Sushobhit (sushobhit27): contributor
  Added new check 'comparison-with-itself'.
  Added new check 'useless-import-alias'.
  Added support of annotations in missing-type-doc and missing-return-type-doc.
  Added new check 'comparison-with-callable'.
  Removed six package dependency.
  Added new check 'chained-comparison'.
  Added new check 'useless-object-inheritance'.

* Mariatta Wijaya: contributor
  Added new check `logging-fstring-interpolation`
  Documentation typo fixes

* Jason Owen: contributor

* Mark Roman Miller: fix inline defs in too-many-statements

* Adam Dangoor: contributor

* Gary Tyler McLeod: contributor

* Wolfgang Grafen, Axel Muller, Fabio Zadrozny, Pierre Rouleau,
  Maarten ter Huurne, Mirko Friedenhagen and all the Logilab's team (among others).

* Matej Marusak: contributor

* Nick Drozd: contributor, performance improvements to astroid

* Kosarchuk Sergey: contributor

* Carey Metcalfe: demoted `try-except-raise` from error to warning

* Marcus Nslund (naslundx): contributor

* Natalie Serebryakova: contributor

* Caio Carrara: contributor
* Roberto Leinardi: PyCharm plugin maintainer

* Aivar Annamaa: contributor

* Hornwitser: fix import graph

* Yuri Gribov: contributor

* Drew Risinger: committer (docs)

* Ben James

* Tomer Chachamu, Richard Goodman: simplifiable-if-expression

* Alan Chan: contributor

* Benjamin Drung: contributing Debian Developer

* Scott Worley: contributor

* Michael Hudson-Doyle

* Lucas Cimon: contributor

* Mike Miller: contributor

* Sergei Lebedev: contributor

* Sasha Bagan

* Pablo Galindo Salgado: contributor
  Fix false positive 'Non-iterable value' with async comprehensions.

* Matus Valo

* Sardorbek Imomaliev: contributor

* Justin Li (justinnhli)

* Nicolas Dickreuter

* Pascal Corpet

* Svetoslav Neykov: contributor

* Federico Bond: contributor
* Fantix King (UChicago): contributor

* Yory (yory8): contributor

* Thomas Hisch: contributor

* Clément Pit-Claudel: contributor

* Goudcode: contributor

* Paul Renvoise: contributor

* BluesheepToken: contributor

* Michael Scott Cuthbert: contributor

* Pierre Sassoulas: contributor
  - Made C0412 (ungrouped import) compatible with isort
  - Made multiple message with the same old name possible
  - Made Pylint a little faster by refactoring the message store
  - Broke down "missing-docstrings" between "module", "class" and "function"

* Nathan Marrow

* Taewon Kim: contributor

* Daniil Kharkov: contributor

* Tyler N. Thieding: contributor

* Zeb Nicholls: contributor
  - Made W9011 compatible with 'of' syntax in return types

* Martin Vielsmaier: contributor

* Agustín Toledo: contributor

* Nicholas Smith: contributor

* Peter Kolbus (Garmin): contributor

* Oisin Moran: contributor

* Andrzej Klajnert: contributor

* Andrés Prez Hortal: contributor

* Niko Wenselowski: contributor
* Danny Hermes: contributor

* Eric Froemling: contributor

* Robert Schweizer: contributor

* Hugo van Kemenade: contributor

* Trevor Bekolay: contributor
  - Added --list-msgs-enabled command

* Rmi Cardona: contributor

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Mersenne Twister

--------------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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MD5 message digest algorithm

---------------------------------

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
text is available at
http://www.ietf.org/rfc/rfc1321.txt
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
 references to Ghostscript; clarified derivation from RFC 1321;
 now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
 added conditionalization for C++ compilation from Martin
 Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

--------------------------

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test_epoll

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 * A very simple CSV parser released under a commercial-friendly license.
 * This just implements splitting a single line into fields.
 * 
 * The purpose of the CSVParser is to take a single string and parse it into
 * its elements based on the delimiter, quote and escape characters.
 * 
 * The CSVParser has grown organically based on user requests and does not truely match
 * any current requirements (though it can be configured to match or come close). There
 * is no plans to change this as it will break existing requirements. Consider using
 * the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.
 *
 * @author Glen Smith
 * @author Rainer Pruy
 */

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 *
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Gerhard Petracek gpettracek@apache.org,
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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage
* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofoi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts
* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HttpHeaders and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.
* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.
* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in ``stream`` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending
* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransports`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl()` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside `HTTPConnectionPool._make_request()` for BaseExceptions.
* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
  * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/META-INF/maven/software.amazon.awssdk/elasticsearch/pom.xml

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*/
/**

*p>
* Allows you to either upgrade your domain or perform an Upgrade eligibility check to a compatible Elasticsearch
* version.
* </p>
*
* @param upgradeElasticsearchDomainRequest
* Container for request parameters to <code><a>UpgradeElasticsearchDomain</a></code> operation.
* @return Result of the UpgradeElasticsearchDomain operation returned by the service.
* @throws BaseException
* An error occurred while processing the request.
* @throws ResourceNotFoundException
* An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.
* @throws ResourceAlreadyExistsException
* An exception for creating a resource that already exists. Gives http status code of 400.
* @throws DisabledOperationException
* An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.
* @throws ValidationException
* An exception for missing / invalid input fields. Gives http status code of 400.
* @throws InternalException
* The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.
* @throws SdkException
* Base class for all exceptions that can be thrown by the SDK (both service and client). Can be used for catch all scenarios.
* @throws SdkClientException
* If any client side error occurs such as an IO related failure, failure to get credentials, etc.
* @throws ElasticsearchException
* Base class for all service exceptions. Unknown exceptions will be thrown as an instance of this type.
* @sample ElasticsearchClient.UpgradeElasticsearchDomain
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/DefaultElasticsearchClient.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/ElasticsearchClient.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/model/VPCDerivedInfoStatus.java
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```json
{
  "customizationConfig": {
    "attachPayloadTraitToMember": {},
    "blacklistedSimpleMethods": [],
    "calculateCrc32FromCompressedData": false,
    "convenienceTypeOverloads": [],
    "customErrorCodeFieldName": null,
    "customProtocolFactoryFqcn": null,
    "customResponseMetadata": null,
    "customRetryPolicy": null,
    "customServiceMetadata": null,
    "defaultSimpleMethodTestRegion": null,
    "deprecatedOperations": [],
    "deprecatedShapes": [],
    "excludeClientCreateMethod": false,
    "modelMarshallerDefaultValueSupplier": {},
    "operationModifiers": null,
    "renameShapes": null,
    "sdkModeledExceptionBaseClassName": null,
    "sdkRequestBaseClassName": null,
    "sdkResponseBaseClassName": null,
    "serviceSpecificClientConfigClass": null,
    "serviceSpecificHttpConfig": null,
    "shapeModifiers": null,
    "shapeSubstitutions": null,
    "shareModelConfig": null,
    "skipSyncClientGeneration": false,
    "useAutoConstructList": true,
    "useAutoConstructMap": true,
    "verifiedSimpleMethods": ["deleteElasticsearchServiceRole", "describeReservedElasticsearchInstanceOfferings", "describeReservedElasticsearchInstances", "getCompatibleElasticsearchVersions", "listDomainNames", "listElasticsearchVersions"],
  },
  "metadata": {
    "apiVersion": "2015-01-01",
  }
}```
"asyncBuilder" : "DefaultElasticsearchAsyncClientBuilder",
"asyncBuilderInterface" : "ElasticsearchAsyncClientBuilder",
"asyncClient" : "DefaultElasticsearchAsyncClient",
"asyncInterface" : "ElasticsearchAsyncClient",
"authPolicyPackageName" : null,
"authType" : "V4",
"baseBuilder" : "DefaultElasticsearchBaseClientBuilder",
"baseBuilderInterface" : "ElasticsearchBaseClientBuilder",
"baseExceptionName" : "ElasticsearchException",
"baseRequestName" : "ElasticsearchRequest",
"baseResponseName" : "ElasticsearchResponse",
"cborProtocol" : false,
"clientPackageName" : "elasticsearch",
"contentType" : null,
"defaultEndpoint" : null,
"defaultEndpointWithoutHttpProtocol" : null,
"defaultRegion" : null,
"descriptiveServiceName" : "Amazon Elasticsearch Service",
"documentation" : "<fullname>Amazon Elasticsearch Configuration Service</fullname> <p>Use the Amazon Elasticsearch configuration API to create, configure, and manage Elasticsearch domains.</p> <p>The endpoint for configuration service requests is region-specific: es.<i>region</i>.amazonaws.com. For example, es.us-east-1.amazonaws.com. For a current list of supported regions and endpoints, see <a href="http://docs.aws.amazon.com/general/latest/gr/rande.html#elasticsearch-service-regions" target="_blank">Regions and Endpoints</a>.</p>
"endpointPrefix" : "es",
"fullAuthPolicyPackageName" : "software.amazon.awssdk.services",
"fullClientPackageName" : "software.amazon.awssdk.services.elasticsearch",
"fullModelPackageName" : "software.amazon.awssdk.services.elasticsearch.model",
"fullPaginatorsPackageName" : "software.amazon.awssdk.services.elasticsearch.paginators",
"fullRequestTransformPackageName" : "software.amazon.awssdk.services.elasticsearch.transform",
"fullTransformPackageName" : "software.amazon.awssdk.services.elasticsearch.transform",
"ionProtocol" : false,
"jsonProtocol" : true,
"jsonVersion" : "1.1",
"modelPackageName" : "elasticsearch.model",
"paginatorsPackageName" : "elasticsearch.paginators",
"protocol" : "rest-json",
"requestTransformPackageName" : "elasticsearch.transform",
"requiresApiKey" : false,
"requiresIamSigners" : false,
"rootPackageName" : "software.amazon.awssdk.services",
"serviceName" : "Elasticsearch",
"signingName" : "es",
"syncBuilder" : "DefaultElasticsearchClientBuilder",
"syncBuilderInterface" : "ElasticsearchClientBuilder",
"syncClient" : "DefaultElasticsearchClient",
"syncInterface" : "ElasticsearchClient",
"transformPackageName" : "elasticsearch.transform",
"uid" : "es-2015-01-01",
"xmlProtocol" : false
},
"operations" : {
"AddTags" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "<p>Attaches tags to an existing Elasticsearch domain. Tags are a set of case-sensitive key value pairs. An Elasticsearch domain may have up to 10 tags. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-awtresorcetagging" target="_blank"> Tagging Amazon Elasticsearch Service Domains for more information.</a></p>",
"endpointDiscovery" : null,
"endpointOperation" : false,
"endpointTrait" : null,
"exceptions" : [ {
"exceptionName" : "BaseException",
"documentation" : "<p>An error occurred while processing the request.</p>",
"httpStatusCode" : null }, {
"exceptionName" : "LimitExceededException",
"documentation" : "<p>An exception for trying to create more than allowed resources or sub-resources. Gives http status code of 409.</p>",
"httpStatusCode" : 409 }, {
"exceptionName" : "ValidationException",
"documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode" : 400 }, {
"exceptionName" : "InternalException",
"documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode" : 500 } ],
"hasBlobMemberAsPayload" : false,
"input" : { 
"variableDeclarationType" : "AddTagsRequest",
"variableName" : "addTagsRequest",
"variableType" : "AddTagsRequest",
"documentation" : "<p>Container for the parameters to the <code>AddTags</code> operation. Specify the tags that you want to attach to the Elasticsearch domain.</p>",
"simpleType" : "AddTagsRequest",
"variableSetterType" : "AddTagsRequest"
},
"methodName" : "addTags",
"operationName" : "AddTags",
"paginated" : false,
"returnType" : {
Cancels a scheduled service software update for an Amazon ES domain. You can only perform this operation before the `AutomatedUpdateDate` and when the `UpdateStatus` is in the `PENDING_UPDATE` state.

**Exceptions**

- **BaseException**
  - **documentation**: An error occurred while processing the request.
  - **httpStatusCode**: null

- **InternalException**
  - **documentation**: The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.
  - **httpStatusCode**: 500

- **ResourceNotFoundException**
  - **documentation**: An exception for accessing or deleting a resource that does not exist. Gives http status code of 409.
  - **httpStatusCode**: 409

- **ValidationException**
  - **documentation**: An exception for missing / invalid input fields. Gives http status code of 400.
  - **httpStatusCode**: 400

**Input**

- **variableDeclarationType**: `CancelElasticsearchServiceSoftwareUpdateRequest`
- **variableName**: `cancelElasticsearchServiceSoftwareUpdateRequest`
- **variableType**: `CancelElasticsearchServiceSoftwareUpdateRequest`
- **documentation**: Container for the parameters to the `CancelElasticsearchServiceSoftwareUpdate` operation. Specifies the name of the Elasticsearch domain that you wish to cancel a service software update on.
- **simpleType**: `cancelElasticsearchServiceSoftwareUpdateRequest`
- **variableSetterType**: `cancelElasticsearchServiceSoftwareUpdateRequest`
"returnType" : "CancelElasticsearchServiceSoftwareUpdateResponse",
"documentation" : "The result of a CancelElasticsearchServiceSoftwareUpdate operation. Contains the status of the update."
},
"syncReturnType" : "CancelElasticsearchServiceSoftwareUpdateResponse"
",
"CreateElasticsearchDomain" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "Creates a new Elasticsearch domain. For more information, see Creating Elasticsearch Domains in the Amazon Elasticsearch Service Developer Guide.

"endpointDiscovery" : null,
"endpointOperation" : false,
"endpointTrait" : null,
"exceptions" : [ {
 "exceptionName" : "BaseException",
 "documentation" : "An error occurred while processing the request.

"httpStatusCode" : null
}, {
 "exceptionName" : "DisabledOperationException",
 "documentation" : "An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.

"httpStatusCode" : 409
}, {
 "exceptionName" : "InternalException",
 "documentation" : "The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.

"httpStatusCode" : 500
}, {
 "exceptionName" : "InvalidTypeException",
 "documentation" : "An exception for trying to create or access sub-resource that is either invalid or not supported. Gives http status code of 409.

"httpStatusCode" : 409
}, {
 "exceptionName" : "LimitExceededException",
 "documentation" : "An exception for trying to create more than allowed resources or sub-resources. Gives http status code of 409.

"httpStatusCode" : 409
}, {
 "exceptionName" : "ResourceAlreadyExistsException",
 "documentation" : "An exception for creating a resource that already exists. Gives http status code of 400.

"httpStatusCode" : 400
}, {
 "exceptionName" : "ValidationException",

"httpStatusCode" : 400
}];
"variableDeclarationType" : "CreateElasticsearchDomainRequest",
"variableName" : "createElasticsearchDomainRequest",
"variableType" : "CreateElasticsearchDomainRequest",
"documentation" : "",
"simpleType" : "CreateElasticsearchDomainRequest",
"variableSetterType" : "CreateElasticsearchDomainRequest"
},
"methodName" : "createElasticsearchDomain",
"operationName" : "CreateElasticsearchDomain",
"paginated" : false,
"returnType" : {
"returnType" : "CreateElasticsearchDomainResponse",
"documentation" : "<p>The result of a <code>CreateElasticsearchDomain</code> operation. Contains the status of the newly created Elasticsearch domain.</p>"
},
"syncReturnType" : "CreateElasticsearchDomainResponse"
},
"DeleteElasticsearchDomain" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "<p>Permanently deletes the specified Elasticsearch domain and all of its data. Once a domain is deleted, it cannot be recovered.</p>",
"endpointDiscovery" : null,
"endpointOperation" : false,
"endpointTrait" : null,
"exceptions" : [
  {
    "exceptionName" : "BaseException",
    "documentation" : "<p>An error occurred while processing the request.</p>"
  },
  {
    "exceptionName" : "InternalException",
    "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>"
  },
  {
    "exceptionName" : "ResourceNotFoundException",
    "documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>"
  },
  {
    "exceptionName" : "ValidationException",
    "documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>"
  }
],
"httpStatusCode" : 400
}];
"hasBlobMemberAsPayload" : false,
"input" : {
  "variableDeclarationType" : "CreateElasticsearchDomainRequest",
  "variableName" : "createElasticsearchDomainRequest",
  "variableType" : "CreateElasticsearchDomainRequest",
  "documentation" : "",
  "simpleType" : "CreateElasticsearchDomainRequest",
  "variableSetterType" : "CreateElasticsearchDomainRequest"
},
"httpStatusCode" : 400
};
"hasBlobMemberAsPayload" : false,
"hasBlobMemberAsPayload" : false,
"input" : {
  "variableDeclarationType" : "DeleteElasticsearchDomainRequest",
  "variableName" : "deleteElasticsearchDomainRequest",
  "variableType" : "DeleteElasticsearchDomainRequest",
  "documentation" : "<p>Container for the parameters to the <a>DeleteElasticsearchDomain</a> operation. Specifies the name of the Elasticsearch domain that you want to delete.</p>",
  "simpleType" : "DeleteElasticsearchDomainRequest",
  "variableSetterType" : "DeleteElasticsearchDomainRequest"
},
"methodName" : "deleteElasticsearchDomain",
"operationName" : "DeleteElasticsearchDomain",
"paginated" : false,
"returnType" : {
  "returnType" : "DeleteElasticsearchDomainResponse",
  "documentation" : "<p>The result of a <a>DeleteElasticsearchDomain</a> request. Contains the status of the pending deletion, or no status if the domain and all of its resources have been deleted.</p>",
  "syncReturnType" : "DeleteElasticsearchDomainResponse"
},
"DeleteElasticsearchServiceRole" : {
  "authenticated" : true,
  "deprecated" : false,
  "documentation" : "<p>Deletes the service-linked role that Elasticsearch Service uses to manage and maintain VPC domains. Role deletion will fail if any existing VPC domains use the role. You must delete any such Elasticsearch domains before deleting the role. See <a>Deleting Elasticsearch Service Role</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.</p>",
  "endpointDiscovery" : null,
  "endpointOperation" : false,
  "endpointTrait" : null,
  "exceptions" : [ {
    "exceptionName" : "BaseException",
    "documentation" : "<p>An error occurred while processing the request.</p>",
    "httpStatusCode" : null
  } ],
  "exceptionName" : "InternalException",
  "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
  "httpStatusCode" : 500
},
  "hasBlobMemberAsPayload" : false,
  "input" : {
    "variableDeclarationType" : "DeleteElasticsearchServiceRoleRequest",
    "variableName" : "deleteElasticsearchServiceRoleRequest",
    "variableType" : "DeleteElasticsearchServiceRoleRequest",
    "documentation" : "<p>Container for the parameters to the <a>DeleteElasticsearchServiceRole</a> operation. Specifies the name of the Elasticsearch Service role that you want to delete.</p>",
    "simpleType" : "DeleteElasticsearchServiceRoleRequest",
    "variableSetterType" : "DeleteElasticsearchServiceRoleRequest"
  },
  "methodName" : "deleteElasticsearchServiceRole",
  "operationName" : "DeleteElasticsearchServiceRole",
  "returnType" : {
    "returnType" : "DeleteElasticsearchServiceRoleResponse",
    "documentation" : "<p>The result of a <a>DeleteElasticsearchServiceRole</a> request. Contains the status of the pending deletion of the service-linked role, or no status if the role has already been deleted.</p>",
    "syncReturnType" : "DeleteElasticsearchServiceRoleResponse"
  },
  "DeleteElasticsearchDomainPolicy" : {
    "simpleType" : "DeleteElasticsearchDomainPolicy",
    "variableDeclarationType" : "DeleteElasticsearchDomainPolicyRequest",
    "variableName" : "deleteElasticsearchDomainPolicyRequest",
    "variableType" : "DeleteElasticsearchDomainPolicyRequest"
  },
  "methodName" : "deleteElasticsearchDomainPolicy",
  "operationName" : "DeleteElasticsearchDomainPolicy",
  "returnType" : {
    "returnType" : "DeleteElasticsearchDomainPolicyResponse",
    "documentation" : "<p>The result of a <a>DeleteElasticsearchDomainPolicy</a> request. Contains the status of the pending deletion of the policy, or no status if the policy has already been deleted.</p>",
    "syncReturnType" : "DeleteElasticsearchDomainPolicyResponse"
  }
}
"variableName" : "deleteElasticsearchServiceRoleRequest",
"variableType" : "DeleteElasticsearchServiceRoleRequest",
"documentation" : null,
"simpleType" : "DeleteElasticsearchServiceRoleRequest",
"variableSetterType" : "DeleteElasticsearchServiceRoleRequest"
},
"methodName" : "deleteElasticsearchServiceRole",
"operationName" : "DeleteElasticsearchServiceRole",
"paginated" : false,
"returnType" : {
    "returnType" : "DeleteElasticsearchServiceRoleResponse",
    "documentation" : null
},
"syncReturnType" : "DeleteElasticsearchServiceRoleResponse"
},
"DescribeElasticsearchDomain" : {
    "authenticated" : true,
    "deprecated" : false,
    "documentation" : "<p>Returns domain configuration information about the specified Elasticsearch domain, including the domain ID, domain endpoint, and domain ARN.</p>",
    "endpointDiscovery" : null,
    "endpointOperation" : false,
    "endpointTrait" : null,
    "exceptions" : [{
        "exceptionName" : "BaseException",
        "documentation" : "<p>An error occurred while processing the request.</p>",
        "httpStatusCode" : null
    }, {
        "exceptionName" : "InternalException",
        "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
        "httpStatusCode" : 500
    }, {
        "exceptionName" : "ResourceNotFoundException",
        "documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 409.</p>",
        "httpStatusCode" : 409
    }, {
        "exceptionName" : "ValidationException",
        "documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
        "httpStatusCode" : 400
    }],
    "hasBlobMemberAsPayload" : false,
    "input" : {
        "variableDeclarationType" : "DescribeElasticsearchDomainRequest",
        "variableName" : "describeElasticsearchDomainRequest",
        "variableType" : "DescribeElasticsearchDomainRequest",
        "documentation" : "<p>Container for the parameters to the
<code><a>DescribeElasticsearchDomain</a></code> operation.</p>

```
{  
  "simpleType" : "DescribeElasticsearchDomainRequest",
  "variableSetterType" : "DescribeElasticsearchDomainRequest"
},

"methodName" : "describeElasticsearchDomain",

"operationName" : "DescribeElasticsearchDomain",

"paginated" : false,

"returnType" : {
  
  "returnType" : "DescribeElasticsearchDomainResponse",
  
  "documentation" : "The result of a <code>DescribeElasticsearchDomain</code> request. Contains the status of the domain specified in the request."  
}

"syncReturnType" : "DescribeElasticsearchDomainResponse"
},

"DescribeElasticsearchDomainConfig" : {

  "authenticated" : true,
  
  "deprecated" : false,
  
  "documentation" : "Provides cluster configuration information about the specified Elasticsearch domain, such as the state, creation date, update version, and update date for cluster options."  
},

"endpointDiscovery" : null,

"endpointOperation" : false,

"endpointTrait" : null,

"exceptions" : [ 
  { 
    "exceptionName" : "BaseException",
    "documentation" : "An error occurred while processing the request."  
  },

  { 
    "exceptionName" : "InternalException",
    "documentation" : "The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500."  
  },

  { 
    "exceptionName" : "ResourceNotFoundException",
    "documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status code of 409."  
  },

  { 
    "exceptionName" : "ValidationException",
    "documentation" : "An exception for missing / invalid input fields. Gives http status code of 400."  
  } ]

"hasBlobMemberAsPayload" : false,

"input" : {

  "variableDeclarationType" : "DescribeElasticsearchDomainConfigRequest",
  
  "variableName" : "describeElasticsearchDomainConfigRequest",
  
  "variableType" : "DescribeElasticsearchDomainConfigRequest",

  "documentation" : "Container for the parameters to the <code>DescribeElasticsearchDomainConfig</code> operation. Specifies the domain name for which you want
configuration information.</p>,
   "simpleType" : "DescribeElasticsearchDomainConfigRequest",
   "variableSetterType" : "DescribeElasticsearchDomainConfigRequest"
 },
   "methodName" : "describeElasticsearchDomainConfig",
   "operationName" : "DescribeElasticsearchDomainConfig",
   "paginated" : false,
   "returnType" : {
      "returnType" : "DescribeElasticsearchDomainConfigResponse",
      "documentation" : "<p>The result of a <code>DescribeElasticsearchDomainConfig</code> request. Contains
the configuration information of the requested domain.</p>"
    },
   "syncReturnType" : "DescribeElasticsearchDomainConfigResponse"
 },
   "DescribeElasticsearchDomains" : {
   "authenticated" : true,
   "deprecated" : false,
   "documentation" : "<p>Returns domain configuration information about the specified Elasticsearch domains,
including the domain ID, domain endpoint, and domain ARN.</p>",  
   "endpointDiscovery" : null,
   "endpointOperation" : false,
   "endpointTrait" : null,
   "exceptions" : [ 
            {  
                "exceptionName" : "BaseException",
                "documentation" : "<p>An error occurred while processing the request.</p>",
                "httpStatusCode" : null
            },
            {  
                "exceptionName" : "InternalException",
                "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the
failure is internal to the service). Gives http status code of 500.</p>",
                "httpStatusCode" : 500
            },
            {  
                "exceptionName" : "ValidationException",
                "documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
                "httpStatusCode" : 400
            }
        ],
   "hasBlobMemberAsPayload" : false,
   "input" : {
            "variableDeclarationType" : "DescribeElasticsearchDomainsRequest",
            "variableName" : "describeElasticsearchDomainsRequest",
            "variableType" : "DescribeElasticsearchDomainsRequest",
            "documentation" : "<p>Container for the parameters to the
<code><a>DescribeElasticsearchDomains</a></code> operation. By default, the API returns the status of all
Elasticsearch domains.</p>",
            "simpleType" : "DescribeElasticsearchDomainsRequest",
            "variableSetterType" : "DescribeElasticsearchDomainsRequest"
    },
   "methodName" : "describeElasticsearchDomains",  
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"operationName" : "DescribeElasticsearchDomains",
"paginated" : false,
"returnType" : {
  "returnType" : "DescribeElasticsearchDomainsResponse",
  "documentation" : "The result of a <code>DescribeElasticsearchDomains</code> request. Contains the status of the specified domains or all domains owned by the account."",
  "syncReturnType" : "DescribeElasticsearchDomainsResponse"
},
"DescribeElasticsearchInstanceTypeLimits" : {
  "authenticated" : true,
  "deprecated" : false,
  "documentation" : "Describe Elasticsearch Limits for a given InstanceType and ElasticsearchVersion. When modifying existing Domain, specify the <code><a>DomainName</a></code> to know what Limits are supported for modifying. "",
  "endpointDiscovery" : null,
  "endpointOperation" : false,
  "endpointTrait" : null,
  "exceptions" : [ {
    "exceptionName" : "BaseException",
    "documentation" : "An error occurred while processing the request."",
    "httpStatusCode" : null
  }, {
    "exceptionName" : "InternalException",
    "documentation" : "The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500."",
    "httpStatusCode" : 500
  }, {
    "exceptionName" : "InvalidTypeException",
    "documentation" : "An exception for trying to create or access sub-resource that is either invalid or not supported. Gives http status code of 409."",
    "httpStatusCode" : 409
  }, {
    "exceptionName" : "LimitExceededException",
    "documentation" : "An exception for trying to create more than allowed resources or sub-resources. Gives http status code of 409."",
    "httpStatusCode" : 409
  }, {
    "exceptionName" : "ResourceNotFoundException",
    "documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status code of 400."",
    "httpStatusCode" : 400
  }, {
    "exceptionName" : "ValidationException",
    "documentation" : "An exception for missing / invalid input fields. Gives http status code of 400."",
    "httpStatusCode" : 400
  }]
}
"input": {
    "variableDeclarationType": "DescribeElasticsearchInstanceTypeLimitsRequest",
    "variableName": "describeElasticsearchInstanceTypeLimitsRequest",
    "variableType": "DescribeElasticsearchInstanceTypeLimitsRequest",
    "documentation": "<p>Container for the parameters to <code><a>DescribeElasticsearchInstanceTypeLimits</a></code> operation.</p>",
    "simpleType": "DescribeElasticsearchInstanceTypeLimitsRequest",
    "variableSetterType": "DescribeElasticsearchInstanceTypeLimitsRequest"
},
"methodName": "describeElasticsearchInstanceTypeLimits",
"operationName": "DescribeElasticsearchInstanceTypeLimits",
"paginated": false,
"returnType": {
    "returnType": "DescribeElasticsearchInstanceTypeLimitsResponse",
    "documentation": "<p>Container for the parameters received from <code><a>DescribeElasticsearchInstanceTypeLimits</a></code> operation.</p>",
    "syncReturnType": "DescribeElasticsearchInstanceTypeLimitsResponse"
},
"DescribeReservedElasticsearchInstanceOfferings": {
    "authenticated": true,
    "deprecated": false,
    "documentation": "<p>Lists available reserved Elasticsearch instance offerings.</p>",
    "endpointDiscovery": null,
    "endpointOperation": false,
    "endpointTrait": null,
    "exceptions": [ {
        "exceptionName": "ResourceNotFoundException",
        "documentation": "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
        "httpStatusCode": 409
    }, {
        "exceptionName": "ValidationException",
        "documentation": "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
        "httpStatusCode": 400
    }, {
        "exceptionName": "DisabledOperationException",
        "documentation": "<p>An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.</p>",
        "httpStatusCode": 409
    }, {
        "exceptionName": "InternalException",
        "documentation": "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
        "httpStatusCode": 500
    }],
    "hasBlobMemberAsPayload": false,
    "input": {

"variableDeclarationType" : "DescribeReservedElasticsearchInstanceOfferingsRequest",
"variableName" : "describeReservedElasticsearchInstanceOfferingsRequest",
"variableType" : "DescribeReservedElasticsearchInstanceOfferingsRequest",
"documentation" : "<p>Container for parameters to
<code>DescribeReservedElasticsearchInstanceOfferings</code></p>",
"simpleType" : "DescribeReservedElasticsearchInstanceOfferingsRequest",
"variableSetterType" : "DescribeReservedElasticsearchInstanceOfferingsRequest"
},
"methodName" : "describeReservedElasticsearchInstanceOfferings",
"operationName" : "DescribeReservedElasticsearchInstanceOfferings",
"paginated" : true,
"returnType" : {
 "returnType" : "DescribeReservedElasticsearchInstanceOfferingsResponse",
 "documentation" : "<p>Container for results from
<code>DescribeReservedElasticsearchInstanceOfferings</code></p>",
"syncReturnType" : "DescribeReservedElasticsearchInstanceOfferingsResponse"
},
"DescribeReservedElasticsearchInstances" : {
 "authenticated" : true,
 "deprecated" : false,
 "documentation" : "<p>Returns information about reserved Elasticsearch instances for this account.</p>",
 "endpointDiscovery" : null,
 "endpointOperation" : false,
 "endpointTrait" : null,
 "exceptions" : [ {
 "exceptionName" : "ResourceNotFoundException",
 "documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
 "httpStatusCode" : 409
 }, { 
 "exceptionName" : "InternalException",
 "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
 "httpStatusCode" : 500
 }, { 
 "exceptionName" : "ValidationException",
 "documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
 "httpStatusCode" : 400
 }, { 
 "exceptionName" : "DisabledOperationException",
 "documentation" : "<p>An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.</p>",
 "httpStatusCode" : 409
 } ],
 "hasBlobMemberAsPayload" : false,
 "input" : {
 "variableDeclarationType" : "DescribeReservedElasticsearchInstancesRequest",}
"variableName" : "describeReservedElasticsearchInstancesRequest",
"variableType" : "DescribeReservedElasticsearchInstancesRequest",
"documentation" : "Container for parameters to
<code>DescribeReservedElasticsearchInstances</code>\</p>",
"simpleType" : "DescribeReservedElasticsearchInstancesRequest",
"variableSetterType" : "DescribeReservedElasticsearchInstancesRequest"
},
"methodName" : "describeReservedElasticsearchInstances",
"operationName" : "DescribeReservedElasticsearchInstances",
"paginated" : true,
"returnType" : {
    "returnType" : "DescribeReservedElasticsearchInstancesResponse",
    "documentation" : "Container for results from
<code>DescribeReservedElasticsearchInstances</code>\</p>"
},
"syncReturnType" : "DescribeReservedElasticsearchInstancesResponse"
},
"GetCompatibleElasticsearchVersions" : {
    "authenticated" : true,
    "deprecated" : false,
    "documentation" : "Returns a list of upgrade compatible Elasticsearch versions. You can optionally pass a
<code>DomainName</code> to get all upgrade compatible Elasticsearch versions for that specific domain.\</p>",
"endpointDiscovery" : null,
"endpointOperation" : false,
"endpointTrait" : null,
"exceptions" : [ {
    "exceptionName" : "BaseException",
    "documentation" : "An error occurred while processing the request.\</p>"",
    "httpStatusCode" : null
}, {
    "exceptionName" : "ResourceNotFoundException",
    "documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.\</p>"",
    "httpStatusCode" : 409
}, {
    "exceptionName" : "DisabledOperationException",
    "documentation" : "An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.\</p>"",
    "httpStatusCode" : 409
}, {
    "exceptionName" : "ValidationException",
    "documentation" : "An exception for missing / invalid input fields. Gives http status code of 400.\</p>"",
    "httpStatusCode" : 400
}, {
    "exceptionName" : "InternalException",
    "documentation" : "The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.\</p>"",
    "httpStatusCode" : 500
}];

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"httpStatusCode": 500
},
"hasBlobMemberAsPayload": false,
"input": {
  "variableDeclarationType": "GetCompatibleElasticsearchVersionsRequest",
  "variableName": "getCompatibleElasticsearchVersionsRequest",
  "variableType": "GetCompatibleElasticsearchVersionsRequest",
  "documentation": "<p> Container for request parameters to <code><a>GetCompatibleElasticsearchVersions</a> </code> operation. </p>",
  "simpleType": "GetCompatibleElasticsearchVersionsRequest",
  "variableSetterType": "GetCompatibleElasticsearchVersionsRequest"
},
"methodName": "getCompatibleElasticsearchVersions",
"operationName": "GetCompatibleElasticsearchVersions",
"paginated": false,
"returnType": {
  "returnType": "GetCompatibleElasticsearchVersionsResponse",
  "documentation": "<p> Container for response returned by <code><a>GetCompatibleElasticsearchVersions</a> </code> operation. </p>",
  "syncReturnType": "GetCompatibleElasticsearchVersionsResponse"
},
"GetUpgradeHistory": {
  "authenticated": true,
  "deprecated": false,
  "documentation": "<p>Retrieves the complete history of the last 10 upgrades that were performed on the domain.</p>",
  "endpointDiscovery": null,
  "endpointOperation": false,
  "endpointTrait": null,
  "exceptions": [{
    "exceptionName": "BaseException",
    "documentation": "<p>An error occurred while processing the request.</p>",
    "httpStatusCode": null
  }, {
    "exceptionName": "ResourceNotFoundException",
    "documentation": "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
    "httpStatusCode": 409
  }, {
    "exceptionName": "DisabledOperationException",
    "documentation": "<p>An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.</p>",
    "httpStatusCode": 409
  }, {
    "exceptionName": "ValidationException",
    "documentation": "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
    "httpStatusCode": 400
  }]
}
},
    {
        "exceptionName" : "InternalException",
        "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
        "httpStatusCode" : 500
    }
],
"hasBlobMemberAsPayload" : false,
"input" : {
    "variableDeclarationType" : "GetUpgradeHistoryRequest",
    "variableName" : "getUpgradeHistoryRequest",
    "variableType" : "GetUpgradeHistoryRequest",
    "documentation" : "<p>Container for request parameters to <code> <a>GetUpgradeHistory</a> </code> operation. </p>",
    "simpleType" : "GetUpgradeHistoryRequest",
    "variableSetterType" : "GetUpgradeHistoryRequest"
},
"methodName" : "getUpgradeHistory",
"operationName" : "GetUpgradeHistory",
"paginated" : true,
"returnType" : {
    "returnType" : "GetUpgradeHistoryResponse",
    "documentation" : "<p>Container for response returned by <code> <a>GetUpgradeHistory</a> </code> operation. </p>",
    "syncReturnType" : "GetUpgradeHistoryResponse"
},
"GetUpgradeStatus" : {
    "authenticated" : true,
    "deprecated" : false,
    "documentation" : "<p>Retrieves the latest status of the last upgrade or upgrade eligibility check that was performed on the domain.</p>",
    "endpointDiscovery" : null,
    "endpointOperation" : false,
    "endpointTrait" : null,
    "exceptions" : [ {
        "exceptionName" : "BaseException",
        "documentation" : "<p>An error occurred while processing the request.</p>",
        "httpStatusCode" : null
    }, {
        "exceptionName" : "ResourceNotFoundException",
        "documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
        "httpStatusCode" : 409
    }, {
        "exceptionName" : "DisabledOperationException",
        "documentation" : "<p>An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.</p>",
        "httpStatusCode" : 409
    }
]
"exceptionName" : "ValidationException",
"documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode" : 400
},
"exceptionName" : "InternalException",
"documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode" : 500
]
],
"hasBlobMemberAsPayload" : false,
"input" : {
"variableDeclarationType" : "GetUpgradeStatusRequest",
"variableName" : "getUpgradeStatusRequest",
"variableType" : "GetUpgradeStatusRequest",
"documentation" : "<p>Container for request parameters to <code> <a>GetUpgradeStatus</a> </code> operation. </p>",
"simpleType" : "GetUpgradeStatusRequest",
"variableSetterType" : "GetUpgradeStatusRequest"
},
"methodName" : "getUpgradeStatus",
"operationName" : "GetUpgradeStatus",
"paginated" : false,
"returnType" : {
"returnType" : "GetUpgradeStatusResponse",
"documentation" : "<p>Container for response returned by <code> <a>GetUpgradeStatus</a> </code> operation. </p>",
"syncReturnType" : "GetUpgradeStatusResponse"
},
"ListDomainNames" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "<p>Returns the name of all Elasticsearch domains owned by the current user's account.</p>",
"endpointDiscovery" : null,
"endpointOperation" : false,
"endpointTrait" : null,
"exceptions" : [ {
"exceptionName" : "BaseException",
"documentation" : "<p>An error occurred while processing the request.</p>",
"httpStatusCode" : null
},
"exceptionName" : "ValidationException",
"documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode" : 400
] },
"hasBlobMemberAsPayload" : false,
"input": {
  "variableDeclarationType": "ListDomainNamesRequest",
  "variableName": "listDomainNamesRequest",
  "variableType": "ListDomainNamesRequest",
  "documentation": null,
  "simpleType": "ListDomainNamesRequest",
  "variableSetterType": "ListDomainNamesRequest"
},
  "methodName": "listDomainNames",
  "operationName": "ListDomainNames",
  "paginated": false,
  "returnType": {
    "returnType": "ListDomainNamesResponse",
    "documentation": "<p>The result of a <code>ListDomainNames</code> operation. Contains the names of all Elasticsearch domains owned by this account.</p>"
  },
  "syncReturnType": "ListDomainNamesResponse"
},
"ListElasticsearchInstanceTypes": {
  "authenticated": true,
  "deprecated": false,
  "documentation": "<p>List all Elasticsearch instance types that are supported for given ElasticsearchVersion</p>"
},
"endpointDiscovery": null,
"endpointOperation": false,
"endpointTrait": null,
"exceptions": [
  {
    "exceptionName": "BaseException",
    "documentation": "<p>An error occurred while processing the request.</p>"
  },
  {
    "exceptionName": "InternalException",
    "documentation": "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>"
  },
  {
    "exceptionName": "ResourceNotFoundException",
    "documentation": "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 409.</p>"
  },
  {
    "exceptionName": "ValidationException",
    "documentation": "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>"
  }
],
"hasBlobMemberAsPayload": false,
"input": {
  "variableDeclarationType": "ListElasticsearchInstanceTypesRequest"
"variableName" : "listElasticsearchInstanceTypesRequest",
"variableType" : "ListElasticsearchInstanceTypesRequest",
"documentation" : "<p> Container for the parameters to the <code> <a>ListElasticsearchInstanceTypes</a> </code> operation. </p>",
"simpleType" : "ListElasticsearchInstanceTypesRequest",
"variableSetterType" : "ListElasticsearchInstanceTypesRequest"
},
"methodName" : "listElasticsearchInstanceTypes",
"operationName" : "ListElasticsearchInstanceTypes",
"paginated" : true,
"returnType" : {
    "returnType" : "ListElasticsearchInstanceTypesResponse",
    "documentation" : "<p> Container for the parameters returned by <code> <a>ListElasticsearchInstanceTypes</a> </code> operation. </p>"
},
"syncReturnType" : "ListElasticsearchInstanceTypesResponse"},
"ListElasticsearchVersions" : {
    "authenticated" : true,
    "deprecated" : false,
    "documentation" : "<p>List all supported Elasticsearch versions</p>",
    "endpointDiscovery" : null,
    "endpointOperation" : false,
    "endpointTrait" : null,
    "exceptions" : [ {
        "exceptionName" : "BaseException",
        "documentation" : "<p>An error occurred while processing the request.</p>",
        "httpStatusCode" : null
    }, {
        "exceptionName" : "InternalException",
        "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
        "httpStatusCode" : 500
    }, {
        "exceptionName" : "ResourceNotFoundException",
        "documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
        "httpStatusCode" : 409
    }, {
        "exceptionName" : "ValidationException",
        "documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
        "httpStatusCode" : 400
    }],
    "hasBlobMemberAsPayload" : false,
    "input" : {
        "variableDeclarationType" : "ListElasticsearchVersionsRequest",
        "variableName" : "listElasticsearchVersionsRequest",
        "variableType" : "ListElasticsearchVersionsRequest",
    }
}
Container for the parameters to the `ListElasticsearchVersions` operation. Use `MaxResults` to control the maximum number of results to retrieve in a single call. Use `NextToken` in response to retrieve more results. If the received response does not contain a `NextToken`, then there are no more results to retrieve.

```
"simpleType": "ListElasticsearchVersionsRequest",
"variableSetterType": "ListElasticsearchVersionsRequest"
```

Returns all tags for the given Elasticsearch domain.

```
"authenticated": true,
"deprecated": false,
"documentation": "Returns all tags for the given Elasticsearch domain."
```

Returns an error occurred while processing the request.

```
"exceptionName": "BaseException",
"documentation": "An error occurred while processing the request."
```

Returns an exception for accessing or deleting a resource that does not exist. Gives http status code of 400.

```
"exceptionName": "ResourceNotFoundException",
"documentation": "An exception for accessing or deleting a resource that does not exist. Gives http status code of 400."
```

Returns an exception for missing / invalid input fields. Gives http status code of 400.

```
"exceptionName": "ValidationException",
"documentation": "An exception for missing / invalid input fields. Gives http status code of 400."
```

The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.

```
"exceptionName": "InternalException",
"documentation": "The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500."
```

Gives http status code of 409.

```
"httpStatusCode": 409
```

Gives http status code of 400.

```
"httpStatusCode": 400
```

Gives http status code of 500.

```
"httpStatusCode": 500
```

Gives http status code of 403.

```
"httpStatusCode": 403
```

Gives http status code of 404.

```
"httpStatusCode": 404
```

Gives http status code of 500.
"documentation" : "Container for the parameters to the \texttt{ListTags} operation. Specify the ARN for the Elasticsearch domain to which the tags are attached that you want to view are attached.\", 
"simpleType" : "ListTagsRequest", 
"variableSetterType" : "ListTagsRequest" 
}, 
"methodName" : "listTags", 
"operationName" : "ListTags", 
"paginated" : false, 
"returnType" : { 
 "returnType" : "ListTagsResponse", 
 "documentation" : "The result of a \texttt{ListTags} operation. Contains tags for all requested Elasticsearch domains.\" 
}, 
"syncReturnType" : "ListTagsResponse" 
}, 
"PurchaseReservedElasticsearchInstanceOffering" : { 
 "authenticated" : true, 
 "deprecated" : false, 
 "documentation" : "Allows you to purchase reserved Elasticsearch instances.\", 
 "endpointDiscovery" : null, 
 "endpointOperation" : false, 
 "endpointTrait" : null, 
 "exceptions" : [ 
 { 
 "exceptionName" : "ResourceNotFoundException", 
 "documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.\", 
 "httpStatusCode" : 409 
 }, 
 { 
 "exceptionName" : "ResourceAlreadyExistsException", 
 "documentation" : "An exception for creating a resource that already exists. Gives http status code of 400.\", 
 "httpStatusCode" : 409 
 }, 
 { 
 "exceptionName" : "LimitExceededException", 
 "documentation" : "An exception for trying to create more than allowed resources or sub-resources. Gives http status code of 409.\", 
 "httpStatusCode" : 409 
 }, 
 { 
 "exceptionName" : "DisabledOperationException", 
 "documentation" : "An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.\", 
 "httpStatusCode" : 409 
 }, 
 { 
 "exceptionName" : "ValidationException", 
 "documentation" : "An exception for missing / invalid input fields. Gives http status code of 400.\", 
 "httpStatusCode" : 400 
 } 
]
"exceptionName": "InternalException",
"documentation": "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode": 500
]
},
"hasBlobMemberAsPayload": false,
"input": {
"variableDeclarationType": "PurchaseReservedElasticsearchInstanceOfferingRequest",
"variableName": "purchaseReservedElasticsearchInstanceOfferingRequest",
"variableType": "PurchaseReservedElasticsearchInstanceOfferingRequest",
"documentation": "<p>Container for parameters to <code>PurchaseReservedElasticsearchInstanceOffering</code></p>",
"simpleType": "PurchaseReservedElasticsearchInstanceOfferingRequest",
"variableSetterType": "PurchaseReservedElasticsearchInstanceOfferingRequest"
},
"methodName": "purchaseReservedElasticsearchInstanceOffering",
"operationName": "PurchaseReservedElasticsearchInstanceOffering",
"paginated": false,
"returnType": {
"returnType": "PurchaseReservedElasticsearchInstanceOfferingResponse",
"documentation": "<p>Represents the output of a <code>PurchaseReservedElasticsearchInstanceOffering</code> operation.</p>",
"syncReturnType": "PurchaseReservedElasticsearchInstanceOfferingResponse"
},
"RemoveTags": {
"authenticated": true,
"deprecated": false,
"documentation": "<p>Removes the specified set of tags from the specified Elasticsearch domain.</p>",
"endpointDiscovery": null,
"endpointOperation": false,
"endpointTrait": null,
"exceptions": [{
"exceptionName": "BaseException",
"documentation": "<p>An error occurred while processing the request.</p>",
"httpStatusCode": null
}, {
"exceptionName": "ValidationException",
"documentation": "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode": 400
}, {
"exceptionName": "InternalException",
"documentation": "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode": 500
}]
},
"hasBlobMemberAsPayload": false,
"input": {
"variableDeclarationType": "PurchaseReservedElasticsearchInstanceOfferingRequest",
"variableName": "purchaseReservedElasticsearchInstanceOfferingRequest",
"variableType": "PurchaseReservedElasticsearchInstanceOfferingRequest",
"documentation": "<p>Container for parameters to <code>PurchaseReservedElasticsearchInstanceOffering</code></p>",
"simpleType": "PurchaseReservedElasticsearchInstanceOfferingRequest",
"variableSetterType": "PurchaseReservedElasticsearchInstanceOfferingRequest"
},
"methodName": "purchaseReservedElasticsearchInstanceOffering",
"operationName": "PurchaseReservedElasticsearchInstanceOffering",
"paginated": false,
"returnType": {
"returnType": "PurchaseReservedElasticsearchInstanceOfferingResponse",
"documentation": "<p>Represents the output of a <code>PurchaseReservedElasticsearchInstanceOffering</code> operation.</p>",
"syncReturnType": "PurchaseReservedElasticsearchInstanceOfferingResponse"
},
"RemoveTags": {
"authenticated": true,
"deprecated": false,
"documentation": "<p>Removes the specified set of tags from the specified Elasticsearch domain.</p>",
"endpointDiscovery": null,
"endpointOperation": false,
"endpointTrait": null,
"exceptions": [{
"exceptionName": "BaseException",
"documentation": "<p>An error occurred while processing the request.</p>",
"httpStatusCode": null
}, {
"exceptionName": "ValidationException",
"documentation": "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode": 400
}, {
"exceptionName": "InternalException",
"documentation": "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode": 500
}]
},
"hasBlobMemberAsPayload": false,
"input": {
"variableDeclarationType" : "RemoveTagsRequest",
"variableName" : "removeTagsRequest",
"variableType" : "RemoveTagsRequest",
"documentation" : "<p>Container for the parameters to the <code><a>RemoveTags</a></code> operation. Specify the <code>ARN</code> for the Elasticsearch domain from which you want to remove the specified <code>TagKey</code>.
</p>",
"simpleType" : "RemoveTagsRequest",
"variableSetterType" : "RemoveTagsRequest"
],
"methodName" : "removeTags",
"operationName" : "RemoveTags",
"paginated" : false,
"returnType" : {
  "returnType" : "RemoveTagsResponse",
  "documentation" : null
},
"syncReturnType" : "RemoveTagsResponse"
},
"StartElasticsearchServiceSoftwareUpdate" : {
  "authenticated" : true,
  "deprecated" : false,
  "documentation" : "<p>Schedules a service software update for an Amazon ES domain.</p>",
  "endpointDiscovery" : null,
  "endpointOperation" : false,
  "endpointTrait" : null,
  "exceptions" : [ {
    "exceptionName" : "BaseException",
    "documentation" : "<p>An error occurred while processing the request.</p>",
    "httpStatusCode" : null
  }, {
    "exceptionName" : "InternalException",
    "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
    "httpStatusCode" : 500
  }, {
    "exceptionName" : "ResourceNotFoundException",
    "documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
    "httpStatusCode" : 409
  }, {
    "exceptionName" : "ValidationException",
    "documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
    "httpStatusCode" : 400
  } ],
  "hasBlobMemberAsPayload" : false,
  "input" : {
    "variableDeclarationType" : "StartElasticsearchServiceSoftwareUpdateRequest",
    "variableName" : "startElasticsearchServiceSoftwareUpdateRequest",
    "variableType" : "StartElasticsearchServiceSoftwareUpdateRequest",
    "documentation" : "<p>Starts a software update for an Amazon Elasticsearch domain. This operation is described in the Amazon Elasticsearch Service API reference.
</p>",
    "simpleType" : "StartElasticsearchServiceSoftwareUpdateRequest",
    "variableSetterType" : "StartElasticsearchServiceSoftwareUpdateRequest"
}
"variableType": "StartElasticsearchServiceSoftwareUpdateRequest",
"documentation": "<p>Container for the parameters to the <code>StartElasticsearchServiceSoftwareUpdate</code> operation. Specifies the name of the Elasticsearch domain that you wish to schedule a service software update on.</p>",
"simpleType": "StartElasticsearchServiceSoftwareUpdateRequest",
"variableSetterType": "StartElasticsearchServiceSoftwareUpdateRequest"
},
"methodName": "startElasticsearchServiceSoftwareUpdate",
"operationName": "StartElasticsearchServiceSoftwareUpdate",
"paginated": false,
"returnType": {
"returnType": "StartElasticsearchServiceSoftwareUpdateResponse",
"documentation": "<p>The result of a <code>StartElasticsearchServiceSoftwareUpdate</code> operation. Contains the status of the update.</p>"
},
"syncReturnType": "StartElasticsearchServiceSoftwareUpdateResponse"
},
"UpdateElasticsearchDomainConfig": {
"authenticated": true,
"deprecated": false,
"documentation": "<p>Modifies the cluster configuration of the specified Elasticsearch domain, setting as setting the instance type and the number of instances.</p>",
"endpointDiscovery": null,
"endpointOperation": false,
"endpointTrait": null,
"exceptions": [
{
"exceptionName": "BaseException",
"documentation": "<p>An error occurred while processing the request.</p>",
"httpStatusCode": null
},
{
"exceptionName": "InternalException",
"documentation": "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode": 500
},
{
"exceptionName": "InvalidTypeException",
"documentation": "<p>An exception for trying to create or access sub-resource that is either invalid or not supported. Gives http status code of 409.</p>",
"httpStatusCode": 409
},
{
"exceptionName": "LimitExceeded Exception",
"documentation": "<p>An exception for trying to create more than allowed resources or sub-resources. Gives http status code of 409.</p>",
"httpStatusCode": 409
},
{
"exceptionName": "ResourceNotFoundException",
"documentation": "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>"
}]}
"httpStatusCode": 409
],
"exceptionName": "ValidationException",
"documentation": "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode": 400
}
],
"hasBlobMemberAsPayload": false,
"input": {
"variableDeclarationType": "UpdateElasticsearchDomainConfigRequest",
"variableName": "updateElasticsearchDomainConfigRequest",
"variableType": "UpdateElasticsearchDomainConfigRequest",
"documentation": "<p>Container for the parameters to the <code><a>UpdateElasticsearchDomain</a></code> operation. Specifies the type and number of instances in the domain cluster.</p>",
"simpleType": "UpdateElasticsearchDomainConfigRequest",
"variableSetterType": "UpdateElasticsearchDomainConfigRequest"
},
"methodName": "updateElasticsearchDomainConfig",
"operationName": "UpdateElasticsearchDomainConfig",
"paginated": false,
"returnType": {
"returnType": "UpdateElasticsearchDomainConfigResponse",
"documentation": "<p>The result of an <code>UpdateElasticsearchDomain</code> request. Contains the status of the Elasticsearch domain being updated.</p>",
"syncReturnType": "UpdateElasticsearchDomainConfigResponse"
},
"UpgradeElasticsearchDomain": {
"authenticated": true,
"deprecated": false,
"documentation": "<p>Allows you to either upgrade your domain or perform an Upgrade eligibility check to a compatible Elasticsearch version.</p>",
"endpointDiscovery": null,
"endpointOperation": false,
"endpointTrait": null,
"exceptions": [
{
"exceptionName": "BaseException",
"documentation": "<p>An error occurred while processing the request.</p>",
"httpStatusCode": null
},
{
"exceptionName": "ResourceNotFoundException",
"documentation": "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
"httpStatusCode": 409
},
{
"exceptionName": "ResourceAlreadyExistsException",
"documentation": "<p>An exception for creating a resource that already exists. Gives http status code of 400.</p>",
"httpStatusCode": 409
}];
"exceptionName" : "DisabledOperationException",
"documentation" : "<p>An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.</p>",
"httpStatusCode" : 409
},

"exceptionName" : "ValidationException",
"documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode" : 400
},

"exceptionName" : "InternalException",
"documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode" : 500
] },

"hasBlobMemberAsPayload" : false,
"input" : {
  "variableDeclarationType" : "UpgradeElasticsearchDomainRequest",
  "variableName" : "upgradeElasticsearchDomainRequest",
  "variableType" : "UpgradeElasticsearchDomainRequest",
  "documentation" : "Container for request parameters to <code><a>UpgradeElasticsearchDomain</a></code> operation.

"simpleType" : "UpgradeElasticsearchDomainRequest",
"variableSetterType" : "UpgradeElasticsearchDomainRequest"
},

"methodName" : "upgradeElasticsearchDomain",
"operationName" : "UpgradeElasticsearchDomain",
"paginated" : false,
"returnType" : {
  "returnType" : "UpgradeElasticsearchDomainResponse",
  "documentation" : "Container for response returned by <code><a>UpgradeElasticsearchDomain</a></code> operation.

"syncReturnType" : "UpgradeElasticsearchDomainResponse"
}
],

"shapes" : {
  "AccessPoliciesStatus" : {
    "c2jName" : "AccessPoliciesStatus",
    "customization" : {
      "artificialResultWrapper" : null,
      "skipGeneratingMarshaller" : false,
      "skipGeneratingModelClass" : false,
      "skipGeneratingUnmarshaller" : false,
      "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "The configured access rules for the domain's document and search endpoints, and the
current status of those rules.</p>

"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "PolicyDocument",
    "defaultConsumerFluentSetterDocumentation" : "\nConfiguring Access Policies</a> for more information.</p>

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link options(String)}, a consumer that will call methods on { @link String.Builder}.

@param options The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a> for more information.

@return Returns a reference to this object so that method calls can be chained together.
@see #options(String)"
"deprecated" : false,

@param options The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a> for more information.

@return Returns a reference to this object so that method calls can be chained together.
@see #options(String)

@param options The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a> for more information.

@return Returns a reference to this object so that method calls can be chained together.
@see #options(String)"
"fluentSetterMethodName" : "options",
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",

@param options The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a> for more information.

@return Returns a reference to this object so that method calls can be chained together.
@see #options(String)"}
The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.

```
"getterDocumentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.</p>

@return The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "Options",

" sensitive" : false,

"setterDocumentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.</p>

@param options The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.

"setterMethodName" : "setOptions",

"setterModel" : {

"variableDeclarationType" : "String",
"variableName" : "options",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
],
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "options",
"variableType" : "String",
"documentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a> for more information.&lt;/p&gt;",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The status of the access policy for the Elasticsearch domain. See &lt;code&gt;OptionStatus&lt;/code&gt; for the status information that's included. &lt;/p&gt;nThis is a convenience that creates an instance of the {&lt;link OptionStatus.Builder&gt;} avoiding the need to create one manually via {&lt;link OptionStatus.Builder#builder()&gt;}.

When the {&lt;link Consumer&gt;} completes, {&lt;link OptionStatus.Builder#build()&gt;} is called immediately and its result is passed to {&lt;link #status(OptionStatus)&gt;}.

@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "&lt;p&gt;The status of the access policy for the Elasticsearch domain. See &lt;code&gt;OptionStatus&lt;/code&gt; for the status information that's included. &lt;/p&gt;",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "&lt;p&gt;The status of the access policy for the Elasticsearch domain. See &lt;code&gt;OptionStatus&lt;/code&gt; for the status information that's included. &lt;/p&gt;n@see #status(OptionStatus)",
"fluentSetterMethodName" : "status",
**getterDocumentation**: "<p>The status of the access policy for the Elasticsearch domain. See `<code>OptionStatus</code>` for the status information that's included. </p> return The status of the access policy for the Elasticsearch domain. See `<code>OptionStatus</code>` for the status information that's included.",

**getterModel**: {
  "returnType": "OptionStatus",
  "documentation": null
},

**http**: {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "Status",
  "queryString": false,
  "statusCode": false,
  "unmarshalLocationName": "Status",
  "uri": false
},

**idempotencyToken**: false,

**isBinary**: false,

**jsonValue**: false,

**list**: false,

**listModel**: null,

**map**: false,

**mapModel**: null,

**marshallingType**: "SDK_POJO",

**name**: "Status",

**sensitive**: false,

**setterDocumentation**: "<p>The status of the access policy for the Elasticsearch domain. See `<code>OptionStatus</code>` for the status information that's included. </p> param status The status of the access policy for the Elasticsearch domain. See `<code>OptionStatus</code>` for the status information that's included.",

**setterMethodName**: "setStatus",

**setterModel**: {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},

**simple**: false,

**timestampFormat**: null,

**variable**: {"getterDocumentation" : "<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>\n\n@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",

"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshalLocationName" : "Status",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"name" : "Status",

"sensitive" : false,

"setterDocumentation" : "<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>\n\n@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",

"setterMethodName" : "setStatus",

"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {

"getterDocumentation" : "<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>\n\n@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",

"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshalLocationName" : "Status",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"name" : "Status",

"sensitive" : false,

"setterDocumentation" : "<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>\n\n@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",

"setterMethodName" : "setStatus",

"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {

"getterDocumentation" : "<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>\n\n@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",

"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshalLocationName" : "Status",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"name" : "Status",

"sensitive" : false,

"setterDocumentation" : "<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>\n\n@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",

"setterMethodName" : "setStatus",

"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {

"getterDocumentation" : "<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>\n\n@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",

"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. \</p>",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
}
],
"membersAsMap" : {
"Options" : {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "PolicyDocument",
"defaultConsumerFluentSetterDocumentation" : "The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See \a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies\" target="_blank"\"> Configuring Access Policies</a> for more information.\</p>\n\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link String#builder()]. \n\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link String#builder()].\n\n@param options a consumer that will call methods on [ @link String.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #options(String)"
,
"deprecated" : false,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterMethodName" : "options",
"fluentSetterDocumentation" : "The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See \a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies\" target="_blank"\"> Configuring Access Policies</a> for more information.\n\n@param options The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See \a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies\" target="_blank"\"> Configuring Access Policies</a> for more information.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #options(String)"
,
"getterDocumentation" : "The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See \a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies\" target="_blank"\"> Configuring Access Policies</a> for more information.\n\n@see #options(String)"
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Options",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Options",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "STRING",
  "name" : "Options",
  "sensitive" : false,
  "setterMethodName" : "setOptions",
  "setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "options"}
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "options",
  "variableType" : "String",
  "documentation" : "The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.<p>"

"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
",
"Status" : {
  "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "The status of the access policy for the Elasticsearch domain. See [OptionStatus](#) for the status information that's included. This is a convenience that creates an instance of the [OptionStatus.Builder](#) avoiding the need to create one manually via [OptionStatus.Builder.builder()](#). When the [Consumer](#) completes, [OptionStatus.Builder.build()](#) is called immediately and its result is passed to [status(OptionStatus)](#).<p>
@see #status(OptionStatus)
@deprecated : false,
   "documentation" : "The status of the access policy for the Elasticsearch domain. See [OptionStatus](#) for the status information that's included. <p>
"endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "getStatus",
  "fluentEnumSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "fluentGetterMethodName" : "status",
  "fluentSetterDocumentation" : "The status of the access policy for the Elasticsearch domain. See [OptionStatus](#) for the status information that's included. <p>
@see #status(OptionStatus)
"fluentSetterMethodName" : "status",
  "getterDocumentation" : "The status of the access policy for the Elasticsearch domain. See [OptionStatus](#) for the status information that's included.""}
<code>OptionStatus</code> for the status information that's included. 

@returns The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

```
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"simple" : false,
"setterDocumentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
}
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. \</p>",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "PolicyDocument",
This is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via { @link String.Builder} .\n
When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link String#options(String)} .\n
@param options a consumer that will call methods on [ @link String.Builder]\n
@return Returns a reference to this object so that method calls can be chained together.\n
\n@see #options(String)",
"deprecated" : false,
@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterMethodName" : "options",
@returns a reference to this object so that method calls can be chained together.",
@endpointDiscoveryId" : false,
"enumType" : null,
target="_blank""> Configuring Access Policies</a> for more information.</p>
@return The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank""> Configuring Access Policies</a> for more information.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Options",
"sensitive" : false,


"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "options",
  "variableType" : "String"}
The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies for more information.

This is a convenience that creates an instance of the OptionStatusBuilder avoiding the need to create one manually via OptionStatus.builder(). When the Consumer completes, OptionStatus.Builder#build() is called immediately and its result is passed to OptionStatus.Builder#return Returns a reference to this object so that method calls can be chained together.

The status of the access policy for the Elasticsearch domain. See OptionStatus for the status information that's included.

The status of the access policy for the Elasticsearch domain. See OptionStatus for the status information that's included.

The status of the access policy for the Elasticsearch domain. See OptionStatus for the status information that's included.
"getterModel": {
   "returnType": "OptionStatus",
   "documentation": null
},
"http": {
   "additionalMarshallingPath": null,
   "additionalUnmarshallingPath": null,
   "flattened": false,
   "greedy": false,
   "header": false,
   "isPayload": false,
   "isStreaming": false,
   "location": null,
   "marshallLocation": "PAYLOAD",
   "marshallLocationName": "Status",
   "queryString": false,
   "statusCode": false,
   "unmarshallLocationName": "Status",
   "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
"sensitive": false,
"setterDocumentation": "<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. <p/>\n@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.</p>.
  "setterMethodName": "setStatus",
  "setterModel": {
   "variableDeclarationType": "OptionStatus",
   "variableName": "status",
   "variableType": "OptionStatus",
   "documentation": null,
   "simpleType": "OptionStatus",
   "variableSetterType": "OptionStatus"
  },
  "simple": false,
  "timestampFormat": null,
  "variable": {
   "variableDeclarationType": "OptionStatus",
   "variableName": "status",
   "variableType": "OptionStatus",
   "variableName": "status",
   "variableType": "OptionStatus"
  },
The status of the access policy for the Elasticsearch domain. See `<code>OptionStatus</code>` for the status information that's included. 

```xml
{
  "documentation": "The status of the access policy for the Elasticsearch domain. See `<code>OptionStatus</code>` for the status information that's included. 
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"xmlNameSpaceUri": null
}
```

```xml
"requestSignerAware": false,
"requestSignerClassFqn": null,
"required": [ "Options", "Status" ],
"shapeName": "AccessPoliciesStatus",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "AccessPoliciesStatus",
  "variableName": "accessPoliciesStatus",
  "variableType": "AccessPoliciesStatus",
  "documentation": null,
  "simpleType": "AccessPoliciesStatus",
  "variableSetterType": "AccessPoliciesStatus"
},
"wrapper": false
}
```

```xml
"AddTagsRequest": {
  "c2jName": "AddTagsRequest",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "Container for the parameters to the `<code>AddTags</code>` operation. Specify the tags that you want to attach to the Elasticsearch domain.
  
  "endpointDiscovery": null,
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
```
"httpStatusCode": null,
"marshaller": {
  "action": "AddTags",
  "locationName": null,
  "requestUri": "/2015-01-01/tags",
  "target": null,
  "verb": "POST",
  "xmlNameSpaceUri": null
},
"members": [
  {
    "beanStyleGetterMethodName": "getArn",
    "beanStyleSetterMethodName": "setArn",
    "c2jName": "ARN",
    "c2jShape": "ARN",
    "defaultConsumerFluentSetterDocumentation": "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].
When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #arn(String)].
@param arn a consumer that will call methods on [@link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #arn(String)",
  "deprecated": false,
  "documentation": "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>"",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "arn",
  "fluentSetterDocumentation": "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
@param arn Specify the <code>ARN</code> for which you want to add the tags.
@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName": "arn",
  "getterDocumentation": "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
@return Specify the <code>ARN</code> for which you want to add the tags.",
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
  }
}
"marshallLocation": "PAYLOAD",
"marshallLocationName": "ARN",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ARN",
"uri": false},

"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ARN",
"sensitive": false,

"setterDocumentation": "<p> Specify the <code>ARN</code> for which you want to add the tags. </p>
@param arn Specify the <code>ARN</code> for which you want to add the tags.",

"setterMethodName": "setArn",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},

"simple": true,
"timestampFormat": null,

"variable": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": "<p> Specify the <code>ARN</code> for which you want to add the tags. </p>",
  "simpleType": "String",
  "variableSetterType": "String"
},

"xmlnsSpaceUri": null
},

"beanStyleGetterMethodName": "getTagList",
"beanStyleSetterMethodName": "setTagList",
"c2jName": "TagList",
"c2jShape": "TagList",

"defaultConsumerFluentSetterDocumentation": "<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>
This is a convenience that creates an instance of the { @link List<Tag>.Builder} avoiding the need to create one manually via { @link List<Tag>#builder()}. 
When the { @link Consumer} completes, { @link List<Tag>.Builder#build()} is called immediately and its result is passed to { @link
@tagList(List<Tag>)\n\n@returns a reference to this object so that method calls can be chained together.

@see #tagList(List<Tag>)

"deprecated" : false,
"documentation" : "List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagList",
"fluentSetterMethodName" : "tagList",
"getterDocumentation" : "List of <code>Tag</code> that need to be added for the Elasticsearch domain.

Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

@returns List of <code>Tag</code> that need to be added for the Elasticsearch domain.

\n\n@getters to modify the collection returned by this method will result in an
UnsupportedOperationException.

\n\n@return List of <code>Tag</code> that need to be added for the Elasticsearch domain.

"getterModel" : {
  "returnType" : "java.util.List<Tag>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "TagList",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "TagList",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "genericList" : false,
    "hasLazyCollection" : false,
    "implType" : "java.util.List<Tag",
    "interfaceType" : "java.util.List"
  }
}
Sets the value of the Member property for this object. This is a convenience that creates an instance of the \[Tag.Builder\] avoiding the need to create one manually via \{Tag.builder()\}. When the \[Consumer\] completes, \{Tag.Builder#build()\} is called immediately and its result is passed to \{member(Tag)\}. @param member a consumer that will call methods on \{Tag.Builder\}. @return Returns a reference to this object so that method calls can be chained together. @see #member(Tag)".

"getterDocumentation": "Returns the value of the Member property for this object.

@return The value of the Member property for this object.

"getterModel": {
"returnType": "Tag",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : null,
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : "",
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "Tag",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "Tag",
"templateImplType" : "java.util.ArrayList<Tag>",
"templateType" : "java.util.List<Tag>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagList",
"sensitive" : false,
"setterDocumentation" : "List of Tag that need to be added for the Elasticsearch domain."

@param tagList List of Tag that need to be added for the Elasticsearch domain."

"setterMethodName" : "setTagList",
"setterModel" : {
"variableDeclarationType" : "java.util.List<Tag>",
"variableName" : "tagList",
"variableType" : "java.util.List<Tag>",
"documentation" : null,
"simpleType" : "List<Tag>",
"variableSetterType" : "java.util.Collection<Tag>"
}
,"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<Tag>",
"variableName" : "tagList",
"variableType" : "java.util.List<Tag>",
"documentation" : '<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>',
"simpleType" : "List<Tag>",
"variableSetterType" : "java.util.Collection<Tag>"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
"ARN" : {
"beanStyleGetterMethodName" : "getArn",
"beanStyleSetterMethodName" : "setArn",
"c2jName" : "ARN",
"c2jShape" : "ARN",
"defaultConsumerFluentSetterDocumentation" : '<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
This is a convenience that creates an instance of the <code>&@link String.Builder</code> avoiding the need to create one manually via <code>&@link String.Builder#builder()</code>. When the <code>&@link Consumer</code> completes, <code>&@link String.Builder#build()</code> is called immediately and its result is passed to <code>&@link String.Builder#build()</code>. 
Parameter <code>arn</code> a consumer that will call methods on <code>&@link String.Builder</code>

@see #arn(String)

@deprecated" : false,
"documentation" : '<p> Specify the <code>ARN</code> for which you want to add the tags.</p>",
"endpointDiscoveryId" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : '<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
@link String#builder()

@see #arn(String)

@deprecated" : false,
"documentation" : '<p> Specify the <code>ARN</code> for which you want to add the tags.</p>",
"endpointDiscoveryId" : null,
"eventHeader" : false,
"eventPayload" : false,
"documentation" : null
],
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ARN",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ARN",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "arn",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"setterDocumentation" : "\n<p> Specify the <code>ARN</code> for which you want to add the tags.\n<p>\n\n@param arn Specify the <code>ARN</code> for which you want to add the tags.\n",
"setterMethodName" : "setArn",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "arn",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"}
},
"xmlNameSpaceUri" : null
},
"TagList" : {
"beanStyleGetterMethodName" : "getTagList",
"beanStyleSetterMethodName" : "setTagList",
"c2jName" : "TagList",
"c2jShape" : "TagList",
"defaultConsumerFluentSetterDocumentation" : "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. 
This is a convenience that creates an instance of the {<link List<Tag>.Builder}> avoiding the need to create one manually via {<link List<Tag>#builder>}. When the {<link Consumer>} completes, {<link List<Tag>.Builder#build>} is called immediately and its result is passed to {<link #tagList(List<Tag>)>}.<p>
@returns a reference to this object so that method calls can be chained together.<p>
@see #tagList(List<Tag>)",
"deprecated" : false,
"documentation" : "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. 
This is a convenience that creates an instance of the {<link List<Tag>.Builder}> avoiding the need to create one manually via {<link List<Tag>#builder>}. When the {<link Consumer>} completes, {<link List<Tag>.Builder#build>} is called immediately and its result is passed to {<link #tagList(List<Tag>)>}.<p>
@returns a reference to this object so that method calls can be chained together.<p>
@see #tagList(List<Tag>)",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagList",
"fluentSetterDocumentation" : "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. 
This is a convenience that creates an instance of the {<link List<Tag>.Builder}> avoiding the need to create one manually via {<link List<Tag>#builder>}. When the {<link Consumer>} completes, {<link List<Tag>.Builder#build>} is called immediately and its result is passed to {<link #tagList(List<Tag>)>}.<p>
@returns a reference to this object so that method calls can be chained together.<p>
@see #tagList(List<Tag>)",
"getterDocumentation" : "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. 
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.<p>
@returns a reference to this object so that method calls can be chained together.<p>
@see #tagList(List<Tag>)",
"getterModel" : {
"returnType" : "java.util.List<Tag>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TagList",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TagList",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"stringValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beannStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "Tag",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the {@link Tag.Builder} avoiding the need to create one manually via {@link Tag.Builder}(). When the {@link Consumer} completes, {@link Tag.Builder#build()} is called immediately and its result is passed to {@link #member(Tag)}. @param member a consumer that will call methods on {@link Tag.Builder}(). @return Returns a reference to this object so that method calls can be chained together. @see #member(Tag)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object. @return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object. @return The value of the Member property for this object."
  },
  "getterModel" : {
    "returnType" : "Tag",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"sensitive": false,
"setterDocumentation": "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "Tag",
  "variableName": "member",
  "variableType": "Tag",
  "documentation": null,
  "simpleType": "Tag",
  "variableSetterType": "Tag"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Tag",
  "variableName": "member",
  "variableType": "Tag",
  "documentation": "",
  "simpleType": "Tag",
  "variableSetterType": "Tag"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "Tag",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "Tag"
"templateImplType" : "java.util.ArrayList<Tag>",
"templateType" : "java.util.List<Tag>
",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagList",
"sensitive" : false,
"setterDocumentation" : 
"List of <code>Tag</code> that need to be added for the Elasticsearch domain.
"setterMethodName" : "setTagList",
"setterModel" : {
"variableDeclarationType" : "java.util.List<Tag>",
"variableName" : "tagList",
"variableType" : "java.util.List<Tag>",
"documentation" : null,
"simpleType" : "List<Tag>",
"variableSetterType" : "java.util.Collection<Tag>
",
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<Tag>",
"variableName" : "tagList",
"variableType" : "java.util.List<Tag>",
"documentation" : "List of <code>Tag</code> that need to be added for the Elasticsearch domain.
",
"simpleType" : "List<Tag>",
"variableSetterType" : "java.util.Collection<Tag>
",
"_.nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getArn",
"beanStyleSetterMethodName" : "setArn",
"c2jName" : "ARN",
"c2jShape" : "ARN",
"defaultConsumerFluentSetterDocumentation" : "Specify the <code>ARN</code> for which you want to add the tags.
This is a convenience that creates an instance of the @link String.Builder] avoiding the need to create one manually via [@link String#builder()]. When the @link ConsumerCompletes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #arn(String)].
@param arn a consumer that will call methods on [@link String.Builder] @return Returns a reference to this object so that method calls can be chained together.

@see #arn(String)
",
"deprecated" : false,
"documentation" : "Specify the <code>ARN</code> for which you want to add the tags.
",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterMethodName" : "arn",
"fluentSetterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
@param arn Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
@return Returns a reference to this object so that method calls can be chained together.
",
"getterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
@return Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ARN",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ARN",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"sensitive" : false,
"setterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
@param arn Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
",
"setterMethodName" : "setArn",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "arn",
"variableType" : "String",
"setterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
@param arn Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
",
"getterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
@return Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ARN",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ARN",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"sensitive" : false,
"setterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
@param arn Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
",
"setterMethodName" : "setArn",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "arn",
"variableType" : "String",
"setterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
@param arn Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
",
"getterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
@return Specify the &lt;code&gt;ARN&lt;/code&gt; for which you want to add the tags.
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ARN",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ARN",
"uri" : false
},
"idempotencyToken" : false,
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
}
,"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": ": <p> Specify the <code>ARN</code> for which you want to add the tags. </p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getTagList",
"beanStyleSetterMethodName": "setTagList",
"c2jName": "TagList",
"c2jShape": "TagList",
"defaultConsumerFluentSetterDocumentation": "<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>
This is a convenience that creates an instance of the { @link List<Tag>.Builder} avoiding the need to create one manually via { @link List<Tag>#builder()}.

When the { @link Consumer} completes, { @link List<Tag>.Builder#build()} is called immediately and its result is passed to { @link List#tagList(List<Tag>)}.

@see #tagList(List<Tag>)",
"deprecated": false,
"documentation": "<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>
@endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "tagList",
"fluentSetterDocumentation": "<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>
@param tagList List of <code>Tag</code> that need to be added for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.
@see #tagList(List<Tag>)",
"getterDocumentation": "<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException."
@endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "tagList",
"fluentSetterDocumentation": "<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>
@see #tagList(List<Tag>)",
"getterModel": {
  "returnType": "java.util.List<Tag>",
  "documentation": null
},
"http": {
null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TagList",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TagList",
"uri" : false
}],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "Tag",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
  object.\n  This is a convenience that creates an instance of the [@link Tag.Builder] avoiding the need to create one
  manually via [@link Tag#builder()].\n  When the [@link Consumer] completes, [@link Tag.Builder#build()] is called immediately and its result is passed to [@link #member(Tag)]\n  @param member a consumer that will call methods on [@link Tag.Builder]\n  @return Returns a reference to this object so that method calls can be chained together.\n  @see #member(Tag)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n  The new value for the Member property for this object.\n  @param member the new value of the Member property for this object.\n  @return Returns a reference to this object so that method calls can be chained together.\n  @see #member(Tag)",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n  @return The value of the Member property for this object.\n  "}
"getterModel" : {
  "returnType" : "Tag",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."
,  "setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : null,
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : "",
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {  "variableDeclarationType" : "Tag",
      "variableName" : "member",
      "variableType" : "Tag",
      "documentation" : "",}
"simpleType" : "Tag",
"variableSetterType" : "Tag"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "Tag",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "Tag",
"templateImplType" : "java.util.ArrayList<Tag>",
"templateType" : "java.util.List<Tag>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagList",
"sensitive" : false,
"setterDocumentation" : "&lt;p&gt; List of &lt;code&gt;Tag&lt;/code&gt; that need to be added for the Elasticsearch domain. 
&lt;/p&gt;\n\n@param tagList List of &lt;code&gt;Tag&lt;/code&gt; that need to be added for the Elasticsearch domain.
",
"setterMethodName" : "setTagList",
"setterModel" : {
 "variableDeclarationType" : "java.util.List<Tag>",
 "variableName" : "tagList",
 "variableType" : "java.util.List<Tag>",
 "documentation" : null,
 "simpleType" : "List&lt;Tag&gt;",
 "variableSetterType" : "java.util.Collection&lt;Tag&gt;"
 },
"simple" : false,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "java.util.List<Tag>",
 "variableName" : "tagList",
 "variableType" : "java.util.List&lt;Tag&gt;",
 "documentation" : "&lt;p&gt; List of &lt;code&gt;Tag&lt;/code&gt; that need to be added for the Elasticsearch domain. \n&lt;/p&gt;",
 "simpleType" : "List&lt;Tag&gt;",
 "variableSetterType" : "java.util.Collection&lt;Tag&gt;"
 },
"xmlNameSpaceUri" : null
}],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "ARN", "TagList" ],
"shapeName" : "AddTagsRequest",
"simpleMethod" : false,
"unmarshaller": null,
"variable": {
  "variableDeclarationType": "AddTagsRequest",
  "variableName": "addTagsRequest",
  "variableType": "AddTagsRequest",
  "documentation": null,
  "simpleType": "AddTagsRequest",
  "variableSetterType": "AddTagsRequest"
},
"wrapper": false
},
"AddTagsResponse": {
  "c2jName": "AddTagsResponse",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": null,
  "endpointDiscovery": null,
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": null,
  "members": [],
  "membersAsMap": {},
  "nonStreamingMembers": [],
  "requestSignerAware": false,
  "requestSignerClassName": null,
  "required": null,
  "shapeName": "AddTagsResponse",
  "simpleMethod": false,
  "unmarshaller": {
    "flattened": false,
    "resultWrapper": null
  },
  "variable": {
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"variableName": "addTagsResponse",
"variableType": "AddTagsResponse",
"documentation": null,
"simpleType": "AddTagsResponse",
"variableSetterType": "AddTagsResponse"
},
"wrapper": false
},
"AdditionalLimit": {
  "c2jName": "AdditionalLimit",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  }
},
"deprecated": false,
"documentation": "<p> List of limits that are specific to a given InstanceType and for each of it's <code><a>InstanceRole</a></code>. <br/> Attributes and their details: <br/> <ul> <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code><a>ESPartitionInstanceType</a></code> can support as master node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code><a>ESPartitionInstanceType</a></code> upto which you don't need any master nodes to govern them. </ul> This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #limitName(String)}.<br/> <br/> Returns a reference to this object so that method calls can be chained together.<br/> <br/> see #limitName(String)"
"deprecated" : false,
"documentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code> etc. <br/>Attributes and their details: <br/><ul>
<li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code>&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;</code> can support as master node.  
<li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code>&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;</code> upto which you don't need any master nodes to govern them.  
</ul>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitName",
"fluentSetterMethodName" : "limitName",
"fluentSetterDocumentation" : "&lt;p&gt;Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; etc. &lt;br/&gt;Attributes and their details: &lt;br/&gt;&lt;/ul&gt;&lt;/p&gt;&lt;/li&gt;&lt;i&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; can support as master node. &lt;i&gt;MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt;&lt;/p&gt;

@<p>\param limitName Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; etc. &lt;br/&gt;Attributes and their details: &lt;br/&gt;&lt;/ul&gt;&lt;/p&gt;&lt;/li&gt;&lt;i&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; can support as master node. &lt;i&gt;MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt;&lt;/p&gt;&lt;/li&gt;&lt;i&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; can support as master node. &lt;i&gt;MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt;&lt;/p&gt;

@endreturn Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;code&gt;&lt;a&gt;InstanceRole&lt;/a&gt;&lt;/code&gt; etc. &lt;br/&gt;Attributes and their details: &lt;br/&gt;&lt;/ul&gt;&lt;/li&gt;&lt;i&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; can support as master node. &lt;i&gt;MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt;&lt;/p&gt;&lt;/li&gt;&lt;i&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; can support as master node. &lt;i&gt;MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt;&lt;/p&gt;

"<p>\return Returns a reference to this object so that method calls can be chained together.</p>

@<p>\param limitName Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; etc. &lt;br/&gt;Attributes and their details: &lt;br/&gt;&lt;/ul&gt;&lt;/p&gt;&lt;/li&gt;&lt;i&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; can support as master node. &lt;i&gt;MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt;&lt;/p&gt;

@endreturn Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;code&gt;&lt;a&gt;InstanceRole&lt;/a&gt;&lt;/code&gt; etc. &lt;br/&gt;Attributes and their details: &lt;br/&gt;&lt;/ul&gt;&lt;/li&gt;&lt;i&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; can support as master node. &lt;i&gt;MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt;&lt;/p&gt;&lt;/li&gt;&lt;i&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; can support as master node. &lt;i&gt;MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt;&lt;a&gt;ESPartitionInstanceType&lt;/a&gt;&lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt;&lt;/p&gt;

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"
Name of Additional Limit is specific to a given InstanceType and for each of it's
\texttt{InstanceRole} etc. Attributes and their details:

- \texttt{MaximumNumberOfDataNodesSupported}\hspace{1em} This attribute will be present in Master node only to specify how much data nodes upto which given \texttt{ESPartitionInstanceType} can support as master node.
- \texttt{MaximumNumberOfDataNodesWithoutMasterNode}\hspace{1em} This attribute will be present in Data node only to specify how much data nodes upto which you don't need any master nodes to govern them.

**setter Documentation**

```
<p>\texttt{Name of Additional Limit is specific to a given InstanceType and for each of it's \texttt{InstanceRole} etc. Attributes and their details:}

- \texttt{MaximumNumberOfDataNodesSupported}\hspace{1em} This attribute will be present in Master node only to specify how much data nodes upto which given \texttt{ESPartitionInstanceType} can support as master node.
- \texttt{MaximumNumberOfDataNodesWithoutMasterNode}\hspace{1em} This attribute will be present in Data node only to specify how much data nodes upto which you don't need any master nodes to govern them.

```
Name of Additional Limit is specific to a given InstanceType and for each of it's InstanceRole etc. Attributes and their details: MaximumNumberOfDataNodesSupported This attribute will be present in Master node only to specify how much data nodes upto which given InstanceType can support as master node. MaximumNumberOfDataNodesWithoutMasterNode This attribute will be present in Data node only to specify how much data nodes of given InstanceType upto which you don't need any master nodes to govern them.

- **MaximumNumberOfDataNodesSupported**
  - This attribute will be present in Master node only to specify how much data nodes upto which given InstanceType can support as master node.

- **MaximumNumberOfDataNodesWithoutMasterNode**
  - This attribute will be present in Data node only to specify how much data nodes of given InstanceType upto which you don't need any master nodes to govern them.

```
"documentation": "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's InstanceRole etc. Attributes and their details: <br/>&lt;ul&gt;
<li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given InstanceType can support as master node. &lt;li&gt;MaximumNumberOfDataNodesWithoutMasterNode &lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given InstanceType upto which you don't need any master nodes to govern them. &lt;/ul&gt; </p>"
```

```
"defaultConsumerFluentSetterDocumentation": "<p> Value for given &lt;code&gt; AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; . &lt;/p&gt;&lt;n&gt;&lt;/n&gt;This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. &lt;n&gt;When the &lt;ref&gt;Consumer&lt;/ref&gt; completes, &lt;ref&gt;List&lt;String&gt;.builder().build()&lt;/ref&gt; is called immediately and its result is passed to &lt;ref&gt;AdditionalLimit$LimitName&lt;/ref&gt;'s consumer that will call methods on &lt;ref&gt;List&lt;String&gt;.&lt;/ref&gt; &lt;n&gt;&lt;/n&gt;@return Returns a reference to this object so that method calls can be chained together.&lt;n&gt;@see &lt;ref&gt;limitValues(List&lt;String&gt;&lt;/ref&gt;&lt;/n&gt;)

"deprecated": false,
"documentation": "<p> Value for given &lt;code&gt; AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; . &lt;/p&gt;".  
"endpointDiscoveryId": false,
 enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "limitValues",
"fluentSetterMethodName": "limitValues",
"fluentSetterDocumentation": "<p> Value for given &lt;code&gt; AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; . &lt;/p&gt;&lt;n&gt;@param limitValues Value for given &lt;code&gt; AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; . &lt;n&gt;@return Returns a reference to this object so that method calls can be chained together.";

"fluentSetterMethodName": "limitValues",
"getterDocumentation": "<p> Value for given &lt;code&gt; AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; . &lt;/p&gt;&lt;n&gt;\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException. &lt;n&gt;&lt;/n&gt;@return Value for given &lt;code&gt; AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; . &lt;/p&gt;&lt;n&gt;\n"getterModel": {
 "returnType": "java.util.List&lt;String&gt;",
 "documentation": null
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"http": {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LimitValues",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LimitValues",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "LimitValue",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [\@link String.Builder] avoiding the need to create one manually via [\@link String#builder()].\nWhen the [\@link Consumer] completes, [\@link String.Builder#build()] is called immediately and its result is passed to [\@link #member(String)].\n\n@see #member(String)"
  },
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)"
  },
  "fluentSetterMethodName" : "member",
  "deprecated" : false,
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : true,
  "listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "c2jShape" : "LimitValue",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [\@link String.Builder] avoiding the need to create one manually via [\@link String#builder()].\nWhen the [\@link Consumer] completes, [\@link String.Builder#build()] is called immediately and its result is passed to [\@link #member(String)].\n\n@see #member(String)"
    },
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)"
  },
  "fluentSetterMethodName" : "member",
  "deprecated" : false,
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : true,
  "listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "c2jShape" : "LimitValue",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [\@link String.Builder] avoiding the need to create one manually via [\@link String#builder()].\nWhen the [\@link Consumer] completes, [\@link String.Builder#build()] is called immediately and its result is passed to [\@link #member(String)].\n\n@see #member(String)"
    },
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)"
  },
  "fluentSetterMethodName" : "member",
  "deprecated" : false,
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : true,
  "listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "c2jShape" : "LimitValue",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [\@link String.Builder] avoiding the need to create one manually via [\@link String#builder()].\nWhen the [\@link Consumer] completes, [\@link String.Builder#build()] is called immediately and its result is passed to [\@link #member(String)].\n\n@see #member(String)"
    },
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)"
  },
  "fluentSetterMethodName" : "member",
  "deprecated" : false,
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : true,
  "listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "c2jShape" : "LimitValue",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [\@link String.Builder] avoiding the need to create one manually via [\@link String#builder()].\nWhen the [\@link Consumer] completes, [\@link String.Builder#build()] is called immediately and its result is passed to [\@link #member(String)].\n\n@see #member(String)"
    },
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)"
  },
  "fluentSetterMethodName" : "member",
  "deprecated" : false,
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : true,
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member"
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"complexType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "LimitValues",
"sensitive": false,
"setterDocumentation": "<p> Value for given <code> &lt;a&gt;AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; . </p>
@param limitValues Value for given <code> &lt;a&gt;AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; .",
"setterMethodName": "setLimitValues",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "limitValues",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "limitValues",
  "variableType": "java.util.List<String>",
  "documentation": "<p> Value for given <code> &lt;a&gt;AdditionalLimit$LimitName&lt;/a&gt; &lt;/code&gt; . </p>
"
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
}

"membersAsMap": {
  "LimitName": {
    "beanStyleGetterMethodName": "getLimitName",
  }
}
"beanStyleSetterMethodName": "setLimitName",
"c2jName": "LimitName",
"c2jShape": "LimitName",
"defaultConsumerFluentSetterDocumentation": "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code>a</code> InstanceRole</a> <code>/a</code> etc. Attributes and their details: <br/>
<ul>
<li>MaximumNumberOfDataNodesSupported</li>
</ul>
This attribute will be present in Master node only to specify how much data nodes upto which given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> can support as master node. <br/>
<ul>
<li>MaximumNumberOfDataNodesWithoutMasterNode</li>
</ul>
This attribute will be present in Data node only to specify how much data nodes of given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> upto which you don't need any master nodes to govern them. <br/>

\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link #build()].

\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #limitName(String)].

\n@ param limitName a consumer that will call methods on [ @link String.Builder]\n\n@ return Returns a reference to this object so that method calls can be chained together:\n\n@ see #limitName(String)",
"deprecated" : false,
"documentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code>a</code> InstanceRole</a> <code>/a</code> etc. Attributes and their details: <br/>
<ul>
<li>MaximumNumberOfDataNodesSupported</li>
</ul>
This attribute will be present in Master node only to specify how much data nodes upto which given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> can support as master node. <br/>
<ul>
<li>MaximumNumberOfDataNodesWithoutMasterNode</li>
</ul>
This attribute will be present in Data node only to specify how much data nodes of given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> upto which you don't need any master nodes to govern them. <br/>

\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link #build()].

\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #limitName(String)].

\n@ param limitName a consumer that will call methods on [ @link String.Builder]\n\n@ return Returns a reference to this object so that method calls can be chained together:\n\n@ see #limitName(String)",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitName",
"fluentSetterDocumentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code>a</code> InstanceRole</a> <code>/a</code> etc. Attributes and their details: <br/>
<ul>
<li>MaximumNumberOfDataNodesSupported</li>
</ul>
This attribute will be present in Master node only to specify how much data nodes upto which given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> can support as master node. <br/>
<ul>
<li>MaximumNumberOfDataNodesWithoutMasterNode</li>
</ul>
This attribute will be present in Data node only to specify how much data nodes of given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> upto which you don't need any master nodes to govern them. <br/>

\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link #build()].

\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #limitName(String)].

\n@ param limitName a consumer that will call methods on [ @link String.Builder]\n\n@ return Returns a reference to this object so that method calls can be chained together:\n\n@ see #limitName(String)",
"getterDocumentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code>a</code> InstanceRole</a> <code>/a</code> etc. Attributes and their details: <br/>
<ul>
<li>MaximumNumberOfDataNodesSupported</li>
</ul>
This attribute will be present in Master node only to specify how much data nodes upto which given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> can support as master node. <br/>
<ul>
<li>MaximumNumberOfDataNodesWithoutMasterNode</li>
</ul>
This attribute will be present in Data node only to specify how much data nodes of given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> upto which you don't need any master nodes to govern them. <br/>

\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link #build()].

\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #limitName(String)].

\n@ param limitName a consumer that will call methods on [ @link String.Builder]\n\n@ return Returns a reference to this object so that method calls can be chained together:\n\n@ see #limitName(String)",
"fluentSetterMethodName" : "limitName",
"getterDocumentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code>a</code> InstanceRole</a> <code>/a</code> etc. Attributes and their details: <br/>
<ul>
<li>MaximumNumberOfDataNodesSupported</li>
</ul>
This attribute will be present in Master node only to specify how much data nodes upto which given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> can support as master node. <br/>
<ul>
<li>MaximumNumberOfDataNodesWithoutMasterNode</li>
</ul>
This attribute will be present in Data node only to specify how much data nodes of given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> upto which you don't need any master nodes to govern them. <br/>

\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link #build()].

\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #limitName(String)].

\n@ param limitName a consumer that will call methods on [ @link String.Builder]\n\n@ return Returns a reference to this object so that method calls can be chained together:\n\n@ see #limitName(String)",
"deprecated" : false,
"documentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code>a</code> InstanceRole</a> <code>/a</code> etc. Attributes and their details: <br/>
<ul>
<li>MaximumNumberOfDataNodesSupported</li>
</ul>
This attribute will be present in Master node only to specify how much data nodes upto which given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> can support as master node. <br/>
<ul>
<li>MaximumNumberOfDataNodesWithoutMasterNode</li>
</ul>
This attribute will be present in Data node only to specify how much data nodes of given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> upto which you don't need any master nodes to govern them. <br/>

\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link #build()].

\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #limitName(String)].

\n@ param limitName a consumer that will call methods on [ @link String.Builder]\n\n@ return Returns a reference to this object so that method calls can be chained together:\n\n@ see #limitName(String)",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitName",
"fluentSetterDocumentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code>a</code> InstanceRole</a> <code>/a</code> etc. Attributes and their details: <br/>
<ul>
<li>MaximumNumberOfDataNodesSupported</li>
</ul>
This attribute will be present in Master node only to specify how much data nodes upto which given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> can support as master node. <br/>
<ul>
<li>MaximumNumberOfDataNodesWithoutMasterNode</li>
</ul>
This attribute will be present in Data node only to specify how much data nodes of given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> upto which you don't need any master nodes to govern them. <br/>

\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link #build()].

\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #limitName(String)].

\n@ param limitName a consumer that will call methods on [ @link String.Builder]\n\n@ return Returns a reference to this object so that method calls can be chained together:\n\n@ see #limitName(String)",
"deprecated" : false,
"documentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code>a</code> InstanceRole</a> <code>/a</code> etc. Attributes and their details: <br/>
<ul>
<li>MaximumNumberOfDataNodesSupported</li>
</ul>
This attribute will be present in Master node only to specify how much data nodes upto which given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> can support as master node. <br/>
<ul>
<li>MaximumNumberOfDataNodesWithoutMasterNode</li>
</ul>
This attribute will be present in Data node only to specify how much data nodes of given <code>a</code> ESDPartitionInstanceType</a> <code>/a</code> upto which you don't need any master nodes to govern them. <br/>

\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link #build()].

\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #limitName(String)].

\n@ param limitName a consumer that will call methods on [ @link String.Builder]\n\n@ return Returns a reference to this object so that method calls can be chained together:".,
node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them. </ul>

@return Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. Attributes and their details: <br/> <ul> <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them. </ul>
specify how much data nodes upto which given `<code>`<a>ESPartitionInstanceType</a>`</code>` can support as master node. `<li>`MaximumNumberOfDataNodesWithoutMasterNode` This attribute will be present in Data node only to specify how much data nodes of given `<code>`<a>ESPartitionInstanceType</a>`</code>` upto which you don't need any master nodes to govern them. `/ul`","setterMethodName" : "setLimitName",
setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "limitName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "limitName",
  "variableType" : "String",
  "documentation" : `<p> Name of Additional Limit is specific to a given InstanceType and for each of it's `<code>`<a>InstanceRole</a>`</code>` etc. Attributes and their details: `<br>` `<ul>
<li>MaximumNumberOfDataNodesSupported` This attribute will be present in Master node only to specify how much data nodes upto which given `<code>`<a>ESPartitionInstanceType</a>`</code>` can support as master node. `<li>`MaximumNumberOfDataNodesWithoutMasterNode` This attribute will be present in Data node only to specify how much data nodes of given `<code>`<a>ESPartitionInstanceType</a>`</code>` upto which you don't need any master nodes to govern them. `/ul` `/p"`,
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"LimitValues" : {
  "beanStyleGetterMethodName" : "getLimitValues",
  "beanStyleSetterMethodName" : "setLimitValues",
  "c2jName" : "LimitValues",
  "c2jShape" : "LimitValueList",
  "defaultConsumerFluentSetterDocumentation" : `<p> Value for given `<code>`<a>AdditionalLimit$LimitName</a>`</code>` . `/p`<br>`<p>This is a convenience that creates an instance of the `{ @link List<String>}.Builder` avoiding the need to create one manually via `{ @link List<String>#builder()}`.\nWhen the `{ @link Consumer collects, { @link List<String>.Builder#build()}` is called immediately and its result is passed to `{ @link LimitValues(List<String>)}`.\n@<a>param limitValues a consumer that will call methods on `{ @link List<String>}.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@<a>see #limitValues(List<String>)`"`,
deprecated" : false,
documentation" : `<p> Value for given `<code>`<a>AdditionalLimit$LimitName</a>`</code>` . `/p"`,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterDocumentation" : "<p> Value for given <code> <a>AdditionalLimit$LimitName</a> </code> .
</p>
@<p@return>param limitValues Value for given <code> <a>AdditionalLimit$LimitName</a> </code> .

@<p@return>return
Returns a reference to this object so that method calls can be chained together.
</p>
"fluentSetterMethodName" : "limitValues",
"getterDocumentation" : "<p> Value for given <code> <a>AdditionalLimit$LimitName</a> </code> .
</p>
<p>
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
</p>
@<p@return>return
Value for given <code> <a>AdditionalLimit$LimitName</a> </code> .
</p>

getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "LimitValues",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LimitValues",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodNmame" : "setMember",
"c2jName" : "member",
"c2jShape" : "LimitValue",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object.\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create
one manually via { @link String#builder()}.\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #member(String)}\n\n@<param
member a consumer that will call methods on `{@link String.Builder}`\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #member(String)

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.\n@returns The value of the Member property for this object."

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The
new value for the Member property for this object.

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "LimitValues",
"sensitive" : false,
"setterDocumentation" : "<p> Value for given <code> <a>AdditionalLimit$LimitName</a> </code>.

@param limitValues Value for given <code> <a>AdditionalLimit$LimitName</a> </code>.

"setterMethodName" : "setLimitValues",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitValues",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
}
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitValues",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p> Value for given <code> <a>AdditionalLimit$LimitName</a> </code> . </p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
}
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getLimitName",
  "beanStyleSetterMethodName" : "setLimitName",
  "c2jName" : "LimitName",
  "c2jShape" : "LimitName",
  "defaultConsumerFluentSetterDocumentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. <br/> Attributes and their details: <br/> <ul>
  <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> </ul> <br/> This is a convenience that creates an instance of the [{@link String.Builder}] avoiding the need to create one manually via [{@link String#builder()}]. When the [{@link Consumer}] completes, [{@link String.Builder#build()}] is called immediately and its result is passed to [{@link #limitName(String)}]. <br/> Returns a reference to this object so that method calls can be chained together. <br/> @see #limitName(String)"
},
  "deprecated" : false,
  "documentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. <br/> Attributes and their details: <br/> <ul>
  <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> </ul> <br/> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> <ul>
  <li>endpointDiscoveryId</li> false,
  <li>enumType</li> null,
  <li>eventHeader</li> false,
  <li>eventPayload</li> false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "limitName",
  "fluentSetterDocumentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. <br/> Attributes and their details: <br/> <ul>
  <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> </ul> <br/> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> <ul>
  <li>endpointDiscoveryId</li> false,
  <li>enumType</li> null,
MaximumNumberOfDataNodesWithoutMasterNode This attribute will be present in Data node only to specify how much data nodes of given ESPartitionInstanceType upto which you don't need any master nodes to govern them. This attribute will be present in Master node only to specify how much data nodes of given ESPartitionInstanceType upto which you don't need any master nodes to govern them.

MaximumNumberOfDataNodesSupported This attribute will be present in Master node only to specify how much data nodes of given ESPartitionInstanceType can support as master node.

MaximumNumberOfDataNodesWithoutMasterNode This attribute will be present in Data node only to specify how much data nodes of given ESPartitionInstanceType upto which you don't need any master nodes to govern them.

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName": "limitName",
"getterDocumentation": "Name of Additional Limit is specific to a given InstanceType and for each of it's InstanceRole etc. Attributes and their details:

- **MaximumNumberOfDataNodesSupported**: This attribute will be present in Master node only to specify how much data nodes of given ESPartitionInstanceType can support as master node.

- **MaximumNumberOfDataNodesWithoutMasterNode**: This attribute will be present in Data node only to specify how much data nodes of given ESPartitionInstanceType upto which you don't need any master nodes to govern them.

@return Name of Additional Limit is specific to a given InstanceType and for each of it's InstanceRole etc. Attributes and their details:

- **MaximumNumberOfDataNodesSupported**: This attribute will be present in Master node only to specify how much data nodes of given ESPartitionInstanceType can support as master node.

- **MaximumNumberOfDataNodesWithoutMasterNode**: This attribute will be present in Data node only to specify how much data nodes of given ESPartitionInstanceType upto which you don't need any master nodes to govern them.

"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayLoad": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "LimitName",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "LimitName",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "LimitName",
"sensitive" : false,
"setterDocumentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. <br/> Attributes and their details: <br/> <ul>
<li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. 
<li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them. </ul>\n@param limitName Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. <br/> Attributes and their details: <br/> <ul>
<li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. 
<li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them. </ul>\n"setterMethodName" : "setLimitName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "limitName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "limitName",
  "variableType" : "String",
  "documentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. <br/> Attributes and their details: <br/> <ul>
<li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. 
<li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them. </ul>\n"setterMethodName" : "setLimitValues",
"beanStyleGetterMethodName" : "getLimitValues",
"beanStyleSetterMethodName" : "setLimitValues",\n"xmlNameSpaceUri" : null}
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "LimitValue",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object.\n\nThis is a convenience that creates an instance of the [{@link String.Builder} avoiding the need to create
one manually via {@link String#builder()}.\n\nWhen the [{@link Consumer} completes, [{@link
String.Builder#build()} is called immediately and its result is passed to [{@link #member(String)}].\n\n@see #member(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nSets the value of the Member property for this object.
\nSets the value of the Member property for this object.
\nSets the value of the Member property for this object.
\nSets the value of the Member property for this object.
\nSets the value of the Member property for this object.
\nReturns a reference to this object so that method calls can be chained together.\n\n@see #member(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nReturns a reference to this object so that method calls can be chained together.\n\n@see #member(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nReturns a reference to this object so that method calls can be chained together.\n\n@see #member(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nSets the value of the Member property for this object.\n\nReturns a reference to this object so that method calls can be chained together.\n\n@see #member(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"unmarshallLocationName" : "member",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "member",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
 },
 "simple" : true,
 "timestampFormat" : null,
 "variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "member",
 "variableType" : "String",
 "documentation" : "",
 "simpleType" : "String",
 "variableSetterType" : "String"
 },
 "xmlNameSpaceUri" : null
],
 "memberLocationName" : null,
 "memberType" : "String",
 "map" : false,
 "memberAdditionalMarshallingPath" : null,
 "memberAdditionalUnmarshallingPath" : null,
 "simple" : true,
 "simpleType" : "String",
 "templateImplType" : "java.util.ArrayList<String>",
 "templateType" : "java.util.List<String>"
},
 "map" : false,
 "mapModel" : null,
"marshallingType": "LIST",
"name": "LimitValues",
"sensitive": false,
"setterDocumentation": "<p> Value for given <code> AdditionalLimit$LimitName </code>.
</p>
@<param> limitValues Value for given <code> AdditionalLimit$LimitName </code>.
</code>.
"setterMethodName": "setLimitValues",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "limitValues",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "limitValues",
  "variableType": "java.util.List<String>",
  "documentation": "<p> Value for given <code> AdditionalLimit$LimitName </code>.
</p>
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "AdditionalLimit",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "AdditionalLimit",
  "variableName": "additionalLimit",
  "variableType": "AdditionalLimit",
  "documentation": null,
  "simpleType": "AdditionalLimit",
  "variableSetterType": "AdditionalLimit"
},
"wrapper": false
],
"AdvancedOptionsStatus": {
  "c2jName": "AdvancedOptionsStatus",
  "customization": {

}
Status of the advanced options for the specified Elasticsearch domain. Currently, the following advanced options are available:

- Option to allow references to indices in an HTTP request body. Must be `false` when configuring access to individual sub-resources. By default, the value is `true`. See [Configuration Advanced Options](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options) for more information.

- Option to specify the percentage of heap space that is allocated to field data. By default, this setting is unbounded.

For more information, see [Configuring Advanced Options](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options).

This is a convenience that creates an instance of the `Map<String,String>.Builder` avoiding the need to create one manually via `Map<String,String>#builder()`. When the `Consumer` completes, `Map<String,String>.Builder#build()` is called immediately and its result is passed to a consumer that will call methods on `Map<String,String>`. The reference to this object so that method calls can be chained together.

```java
@Deprecated
public void @param options(Map<String,String>)
@link Map<String,String>.Builder#build()
@link Map<String,String>.Builder#build()
```
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the status of advanced options for the specified Elasticsearch domain.</p>
@param options Specifies the status of advanced options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the status of advanced options for the specified Elasticsearch domain.</p>

Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

@return Specifies the status of advanced options for the specified Elasticsearch domain."
"getterModel" : {
  "returnType" : "java.util.Map<String,String>",
  "documentation" : null
},
"http" : {
  "additionaMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object."
  }
},
"isPayload" : false,
"marshallerPath" : null,
"marshallerType" : "java.util.Map<String,String>",
"marshalled" : false,
"marshallingPath" : null,
"unmarshallingPath" : null,
"uriLocation" : null,
"uriLocationName" : null,
"isStreaming" : false,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String.Builder#builder()}.When the {@link Consumer} completes, {@link String.Builder#build()} is called
immediately and its result is passed to \{ @link #key\(\text{String}\)\}.\n@param key a consumer that will call methods on \{ @link String\ Builder\}\n@return Returns a reference to this object so that method calls can be chained
together.\n@see #key\(\text{String}\)\
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "key",
  "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\n@returns {Object} Returns a reference to this object so that method calls can be
called together.
"fluentSetterMethodName" : "key",
  "getterDocumentation" : "Returns the value of the Key property for this object.\n@returns The value of the
Key property for this object."
  "getterModel" : {                  (null)
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {                          (null)
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "key",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "key",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "STRING",
  "name" : "Key",
  "sensitive" : false,
"setterDocumentation": "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.",
"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "c2jName": "value",
  "c2jShape": "String",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to
{@link #value(String)}. @param value a consumer that will call methods on
{@link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #value(String)",
"deprecated": false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "value",
"fluentSetterDocumentation": "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "value"}
"getterDocumentation" : "Returns the value of the Value property for this object."
@return The value of the Value property for this object.
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "value",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object."
@param value The new value for the Value property for this object.
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"}
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
@param options Specifies the status of advanced options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "options",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "options",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>",
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the
{@link OptionStatus.Builder} avoiding the need to create one manually via
{@link OptionStatus#builder()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to
{@link #status(OptionStatus)} a consumer that will call methods on
{@link OptionStatus.Builder} @return Returns a reference to this object so that method calls can be chained together.@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>
@param status Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>
@return Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.",
"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the
specified Elasticsearch domain.

```
@param status Specifies the status of `<code>OptionStatus</code>` for advanced options for the specified Elasticsearch domain.

```

```
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
} ],

```

```
"membersAsMap" : {
  "Options" : {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "AdvancedOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.

This is a convenience that creates an instance of the `{ @link Map<String,String>.Builder }` avoiding the need to create one manually via `{ @link Map<String,String>#builder() }`. When the `{ @link Consumer }` completes, `{ @link Map<String,String>.Builder#build() }` is called immediately and its result is passed to `{ @link #options(Map<String,String>) }`. 

@see #options(Map<String,String>)"
  ,
  "deprecated" : false,
  "documentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.

```

```
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch
```
domain.</p><p>@param options Specifies the status of advanced options for the specified Elasticsearch domain.</p><p>@return Returns a reference to this object so that method calls can be chained together.

  "fluentSetterMethodName" : "options",
  "getterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
  <p>Avoids to modify the collection returned by this method will result in an
  UnsupportedOperationException.</p>
  @return Specifies the status of advanced options for the specified Elasticsearch domain.

  "getterModel" : {
    "returnType" : "java.util.Map<String,String>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Options",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Options",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : true,
  "mapModel" : {
    "implType" : "java.util.HashMap",
    "interfaceType" : "java.util.Map",
    "keyLocationName" : "key",
    "keyModel" : {
      "beanStyleGetterMethodName" : "getKey",
      "beanStyleSetterMethodName" : "setKey",
      "c2jName" : "key",
      "c2jShape" : "String",
      "defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object."
    }
  }

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String.Builder#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called
immediately and its result is passed to {@link #key(String)}. Returns a reference to this object so that method calls can be chained
together.

@see #key(String)
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.

@return The value of the Key property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : false,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setKey"
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "key",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "key",
    "variableType" : "String",
    "documentation" : "",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
    "beanStyleGetterMethodName" : "getValue",
    "beanStyleSetterMethodName" : "setValue",
    "c2jName" : "value",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #value(String)]\n@returns {String} a reference to this object so that method calls can be chained together.\n@see #value(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "value",
    "fluentSetterDocumentation" : "Sets the value of the Value property for this object.\n\nThe new value for the Value property for this object.\n@returns {String} a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "value",
    "getterDocumentation" : "Returns the value of the Value property for this object.\n@returns {String} The value of the Value property for this object.",
    "getterModel" : {

"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "value",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "value",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Value",
"sensitive": false,
"setterDocumentation": "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.",
"setterMethodName": "setValue",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "value",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "value",
"variableType": "String",
"documentation": "",
"simpleType": "String"}
"variableSetterType" : "String",
"xmlNameSpaceUri" : null,
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String, String>",
"marshallingType" : "MAP",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
@param options Specifies the status of advanced options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "options",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>",
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "java.util.Map<String,String>",
    "variableName" : "options",
    "variableType" : "java.util.Map<String,String>",
    "documentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
    "variableType" : "java.util.Map<String,String>",
    "variableSetterType" : "java.util.Map<String,String>",
    "xmlNameSpaceUri" : null,
  },
  "Status" : {
    "beanStyleGetterMethodName" : "getStatus",
    "beanStyleSetterMethodName" : "setStatus",
    "c2jName" : "Status",
    "c2jShape" : "OptionStatus",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain. When the consumer completes, it is called immediately and its result is passed to <code>OptionStatus</code>. This is a convenience that creates an instance of the <code>OptionStatus.Builder</code> avoiding the need to create one manually via <code>OptionStatus.builder().build()</code>. Returns a reference to this object so that method calls can be chained together.
    "deprecated" : false,
    "documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the
specified Elasticsearch domain."

    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "status",
    "fluentSetterDocumentation" : "<p>Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

    "@param status Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

    "@return Returns a reference to this object so that method calls can be chained together.

    "fluentSetterMethodName" : "status",
    "getterDocumentation" : "<p>Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

    "getterModel" : {
        "returnType" : "OptionStatus",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "Status",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "Status",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
    "map" : false,
    "mapModel" : null,
    "marshallingType" : "SDK_POJO",
    "name" : "Status",
    "sensitive" : false,
    "setterDocumentation" : "<p>Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

    "@param status Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

    "@return Returns a reference to this object so that method calls can be chained together.

    "setterMethodName" : "status",
    "setterModel" : {
        "returnType" : "OptionStatus",
        "documentation" : null
    },
    "sensitive" : false,
advanced options for the specified Elasticsearch domain.

"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : <p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>
},
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "AdvancedOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain. This is a convenience that creates an instance of the { @link Map<String,String>.Builder} avoiding the need to create one manually via { @link Map<String,String>#builder()}.
When the { @link Consumer} completes, { @link Map<String,String>.Builder#build()} is called immediately and its result is passed to { @link #options(Map<String,String>)}.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(Map<String,String>)",
    "deprecated" : false,
    "documentation" : <p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
},
"end pointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.\n@param options Specifies the status of advanced options for the specified Elasticsearch domain.\n@see #options(Map<String,String>)"
}
domain.

@f

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the status of advanced options for the specified Elasticsearch domain.</p>

@f

@return Specifies the status of advanced options for the specified Elasticsearch domain.

"getterModel" : {
    "returnType" : "java.util.Map<String,String>",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Options",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Options",
    "uri" : false
},
/idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
    "implType" : "java.util.HashMap",
    "interfaceType" : "java.util.Map",
    "keyLocationName" : "key",
    "keyModel" : {
        "beanStyleGetterMethodName" : "getKey",
        "beanStyleSetterMethodName" : "setKey",
        "c2jName" : "key",
        "c2jShape" : "String",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object."
    }
},
"deprecated" : false,
"documentation": "", "endpointDiscoveryId": false, "enumType": null, "eventHeader": false, "eventPayload": false, "fluentEnumGetterMethodName": null, "fluentEnumSetterMethodName": null, "fluentGetterMethodName": "key", "fluentSetterDocumentation": "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.", "fluentSetterMethodName": "key", "getterDocumentation": "Returns the value of the Key property for this object.

@return The value of the Key property for this object.", "getterModel": { "returnType": "String", "documentation": null }, "http": { "additionalMarshallingPath": null, "additionalUnmarshallingPath": null, "flattened": false, "greedy": false, "header": false, "isPayload": false, "isStreaming": false, "location": null, "marshallLocation": "PAYLOAD", "marshallLocationName": "key", "queryString": false, "statusCode": false, "unmarshallLocationName": "key", "uri": false }, "idempotencyToken": false, "isBinary": false, "jsonValue": false, "list": false, "listModel": null, "map": false, "mapModel": null, "marshallingType": "STRING", "name": "Key", "sensitive": false, "setterDocumentation": "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.

@return Returns a reference to this object so that method calls can be chained together.", "setterMethodName": "setKey", "setterModel": {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to
{@link #value(String)}.  

@defaultConsumerFluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@fluentSetterDocumentation

@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventNameHeader" : false,
"documentation": null
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"http": {
 "additionalMarshallingPath": null,
 "additionalUnmarshallingPath": null,
 "flattened": false,
 "greedy": false,
 "header": false,
 "isPayload": false,
 "isStreaming": false,
 "location": null,
 "marshallLocation": "PAYLOAD",
 "marshallLocationName": "value",
 "queryString": false,
 "statusCode": false,
 "unmarshallLocationName": "value",
 "uri": false
 },
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallType": "STRING",
"name": "Value",
"sensitive": false,
"setterDocumentation": "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.",
"setterMethodName": "setValue",
"setterModel": {
 "variableDeclarationType": "String",
 "variableName": "value",
 "variableType": "String",
 "documentation": null,
 "simpleType": "String",
 "variableSetterType": "String"
 },
"simple": true,
"timestampFormat": null,
"variable": {
 "variableDeclarationType": "String",
 "variableName": "value",
 "variableType": "String",
 "documentation": "",
 "simpleType": "String",
 "variableSetterType": "String"
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>
},
"marshallingType" : "MAP",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
@param options Specifies the status of advanced options for the specified Elasticsearch domain.
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "options",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "options",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "java.util.Map<String,String>",
    "variableName" : "options",
    "variableType" : "java.util.Map<String,String>",
    "documentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
  },
  "xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain. </p>
  This is a convenience that creates an instance of the <code>@link OptionStatus.Builder</code> avoiding the need to create one manually via <code>@link OptionStatus#builder()</code> when the <code>@link Consumer</code> completes. <code>@link OptionStatus.Builder#build()</code> is called immediately and its result is passed to <code>@link #status(OptionStatus)</code>. 
  @param status a consumer that will call methods on <code>@link OptionStatus.Builder</code> 
  @return Returns a reference to this object so that method calls can be chained together. 
  @see #status(OptionStatus)"
, 
  "deprecated" : false,
  "documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.\n@param status Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.\n@return Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.",
"getterModel" : {
    "returnType" : "OptionStatus",
    "documentation" : null
  },
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Status",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Status",
    "uri" : false
  },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.\n@param status Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.,
"setterMethodName" : "setStatus",
"setterModel" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : null,
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : "<p> Specifies the status of &lt;code&gt;OptionStatus&lt;/code&gt; for advanced options for the specified Elasticsearch domain.&lt;/p&gt;",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "AdvancedOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "AdvancedOptionsStatus",
"variableName" : "advancedOptionsStatus",
"variableType" : "AdvancedOptionsStatus",
"documentation" : null,
"simpleType" : "AdvancedOptionsStatus",
"variableSetterType" : "AdvancedOptionsStatus"
},
"wrapper" : false
},
"BaseException" : {
"c2jName" : "BaseException",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
}
}
"deprecated" : false,
"documentation" : "An error occurred while processing the request."
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : "BaseException",
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "BaseException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : { 
"variableDeclarationType" : "BaseException",
"variableName" : "baseException",
"variableType" : "BaseException",
"documentation" : null,
"simpleType" : "BaseException",
"variableSetterType" : "BaseException"
},
"wrapper" : false
},
"CancelElasticsearchServiceSoftwareUpdateRequest" : { 
"c2jName" : "CancelElasticsearchServiceSoftwareUpdateRequest",
"customization" : { 
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "Container for the parameters to the
<code><a>CancelElasticsearchServiceSoftwareUpdate</a></code> operation. Specifies the name of the
Elasticsearch domain that you wish to cancel a service software update on.
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
  "action" : "CancelElasticsearchServiceSoftwareUpdate",
  "locationName" : null,
  "requestUri" : "/2015-01-01/es/serviceSoftwareUpdate/cancel",
  "target" : null,
  "verb" : "POST",
  "xmlNameSpaceUri" : null
},
"members" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "The name of the domain that you want to stop the latest service software update on.
This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder().
When the Consumer completes, String.Builder#build() is called immediately and its result is passed to #domainName(String).
@param domainName a consumer that will call methods on String.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
  "deprecated" : false,
  "documentation" : "The name of the domain that you want to stop the latest service software update on.
", "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "The name of the domain that you want to stop the latest service software update on.
@param domainName The name of the domain that you want to stop the latest service software update on.
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
  "getterDocumentation" : "The name of the domain that you want to stop the latest service software update on.
",  "getterModel" : {
    "returnType" : "String",
    "documentation" : null} },
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "DomainName",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "DomainName",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "DomainName",
"sensitive": false,
"setterDocumentation": "<p>The name of the domain that you want to stop the latest service software update on.<p>

@param domainName The name of the domain that you want to stop the latest service software update on.
","setterMethodName": "setDomainName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "<p>The name of the domain that you want to stop the latest service software update on.<p>",
  "simpleType": "String"
"variableSetterType" : "String",
}
"xmlnsSpaceUri" : null
},
"membersAsMap" : {

"DomainName" : {

"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>
This is a convenience that creates an instance of the {\@link String.Builder} avoiding the need to create one manually via {\@link String#builder()}.\nWhen the {\@link Consumer} completes, {\@link String.Builder#build()} is called immediately and its result is passed to {\@link #domainName(String)}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #domainName(String)",
"deprecated" : false,
"documentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>
@param domainName The name of the domain that you want to stop the latest service software update on.\n@return Returns a reference to this object so that method calls can be chained together.\n";
"getterDocumentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>
@getterModel" : {

"returnType" : "String",
"documentation" : null
},
"http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
}"
The name of the domain that you want to stop the latest service software update on.

```
@Param domainName The name of the domain that you want to stop the latest service software update on.
```

This is a convenience that creates an instance of the `String.Builder`
avoiding the need to create one manually via \{ @link String#builder() \}. When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #domainName(String) \}.\n
@param domainName a consumer that will call methods on \{ @link String.Builder \}\n
@return Returns a reference to this object so that method calls can be chained together.\n
@see #domainName(String)\n
"deprecated" : false,
"documentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>\n
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>\n
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>\n
"getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>
@param domainName The name of the domain that you want to stop the latest service software update on.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "CancelElasticsearchServiceSoftwareUpdateRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "CancelElasticsearchServiceSoftwareUpdateRequest",
  "variableName" : "cancelElasticsearchServiceSoftwareUpdateRequest",
  "variableType" : "CancelElasticsearchServiceSoftwareUpdateRequest",
  "documentation" : null,
  "simpleType" : "CancelElasticsearchServiceSoftwareUpdateRequest",
  "variableSetterType" : "CancelElasticsearchServiceSoftwareUpdateRequest"
},
"wrapper" : false
},
"CancelElasticsearchServiceSoftwareUpdateResponse" : {
  "c2jName" : "CancelElasticsearchServiceSoftwareUpdateResponse",
  "customization" : {
    "artificialResultWrapper" : null,
  }
}
The current status of the Elasticsearch service software update.

When the ServiceSoftwareOptions.Builder completes, ServiceSoftwareOptions.Builder.build() is called immediately and its result is passed to a consumer that will call methods on ServiceSoftwareOptions.Builder

@see #serviceSoftwareOptions(ServiceSoftwareOptions)

When the <code>CancelElasticsearchServiceSoftwareUpdate</code> operation completes, a consumer that will call methods on ServiceSoftwareOptions.Builder is called immediately and its result is passed to a consumer that will call methods on ServiceSoftwareOptions.Builder

@see #serviceSoftwareOptions(ServiceSoftwareOptions)
"returnType" : "ServiceSoftwareOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ServiceSoftwareOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ServiceSoftwareOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"sensitive" : false,
"setterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
@param serviceSoftwareOptions The current status of the Elasticsearch service software update.",
"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
"variableDeclarationType" : "ServiceSoftwareOptions",
"variableName" : "serviceSoftwareOptions",
"variableType" : "ServiceSoftwareOptions",
"documentation" : null,
"simpleType" : "ServiceSoftwareOptions",
"variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ServiceSoftwareOptions",
"variableName" : "serviceSoftwareOptions",
"variableType" : "ServiceSoftwareOptions",
"documentation" : "<p>The current status of the Elasticsearch service software update.</p>",
"simpleType" : "ServiceSoftwareOptions",
"variableSetterType" : "ServiceSoftwareOptions"}
"variableSetterType" : "ServiceSoftwareOptions",
],
"xmlNameSpaceUri" : null
}]
,"membersAsMap" : {
"ServiceSoftwareOptions" : {
"beanStyleGetterMethodName" : "getServiceSoftwareOptions",
"beanStyleSetterMethodName" : "setServiceSoftwareOptions",
"c2jName" : "ServiceSoftwareOptions",
"c2jShape" : "ServiceSoftwareOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
This is a convenience that creates an instance of the {@link ServiceSoftwareOptions.Builder} avoiding the need to create one manually via {@link ServiceSoftwareOptions.Builder}. When the Consumer completes, the @link ServiceSoftwareOptions.Builder.build() is called immediately and its result is passed to @link ServiceSoftwareOptions(serviceSoftwareOptions). The serviceSoftwareOptions a consumer that will call methods on @link ServiceSoftwareOptions.Builder at return Returns a reference to this object so that method calls can be chained together.

@see #serviceSoftwareOptions(ServiceSoftwareOptions)",
"deprecated" : false,
"documentation" : "<p>The current status of the Elasticsearch service software update.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventId" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "serviceSoftwareOptions",
"fluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
@param serviceSoftwareOptions The current status of the Elasticsearch service software update.
@return Returns a reference to this object so that method calls can be chained together.

@see #serviceSoftwareOptions(ServiceSoftwareOptions)",
"getterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
@return The current status of the Elasticsearch service software update.

@see #serviceSoftwareOptions(ServiceSoftwareOptions)",
"getterModel" : {
"returnType" : "ServiceSoftwareOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ServiceSoftwareOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ServiceSoftwareOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"sensitive" : false,
"setterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
@param
serviceSoftwareOptions The current status of the Elasticsearch service software update.
",
"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
    "variableDeclarationType" : "ServiceSoftwareOptions",
    "variableName" : "serviceSoftwareOptions",
    "variableType" : "ServiceSoftwareOptions",
    "documentation" : null,
    "simpleType" : "ServiceSoftwareOptions",
    "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "ServiceSoftwareOptions",
    "variableName" : "serviceSoftwareOptions",
    "variableType" : "ServiceSoftwareOptions",
    "documentation" : "<p>The current status of the Elasticsearch service software update.</p>
",
    "simpleType" : "ServiceSoftwareOptions",
    "variableSetterType" : "ServiceSoftwareOptions"
},
"xmlNameSpaceUri" : null
},
"
"nonStreamingMembers" : [
    "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
    "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
    "c2jName" : "ServiceSoftwareOptions",
    "c2jShape" : "ServiceSoftwareOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
"This is a convenience that creates an instance of the {@link ServiceSoftwareOptions.Builder} avoiding the need to create one manually via {@link ServiceSoftwareOptions.Builder#builder()}. When the {@link Consumer} completes, {@link ServiceSoftwareOptions.Builder#build()} is called immediately and its result is passed to
@link #serviceSoftwareOptions(ServiceSoftwareOptions)

@param serviceSoftwareOptions a
consumer that will call methods on `[@link ServiceSoftwareOptions.Builder]`\n@returns a reference to this object so that method calls can be chained together.\n@see #serviceSoftwareOptions(ServiceSoftwareOptions)$. 
"deprecated" : false, 
"documentation" : "> The current status of the Elasticsearch service software update.\n"endpointDiscoveryId" : false, 
"enumType" : null, 
"eventHeader" : false, 
"eventPayload" : false, 
"fluentEnumGetterMethodName" : null, 
"fluentEnumSetterMethodName" : null, 
"fluentGetterMethodName" : "serviceSoftwareOptions", 
"fluentSetterDocumentation" : "> The current status of the Elasticsearch service software update.\n"getterDocumentation" : "> The current status of the Elasticsearch service software update.\n"getterModel" : { 
"returnType" : "ServiceSoftwareOptions", 
"documentation" : null 
}, 
"http" : { 
"additionalMarshallingPath" : null, 
"additionalUnmarshallingPath" : null, 
"flattened" : false, 
"greedy" : false, 
"header" : false, 
"isPayload" : false, 
"isStreaming" : false, 
"location" : null, 
"marshallLocation" : "PAYLOAD", 
"marshallLocationName" : "ServiceSoftwareOptions", 
"queryString" : false, 
"statusCode" : false, 
"unmarshallLocationName" : "ServiceSoftwareOptions", 
"uri" : false 
}, 
"idempotencyToken" : false, 
"isBinary" : false, 
"jsonValue" : false, 
"list" : false, 
"listModel" : null, 
"map" : false, 
"mapModel" : null, 
"marshallingType" : "SDK_POJO", 
"name" : "ServiceSoftwareOptions", 
"sensitive" : false, 
"setterDocumentation" : "> The current status of the Elasticsearch service software update.\n@returns a reference to this object so that method calls can be chained together."},
serviceSoftwareOptions The current status of the Elasticsearch service software update.

"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : "<p>The current status of the Elasticsearch service software update.</p>",
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"xmlNameSpaceUri" : null
}]

"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "CancelElasticsearchServiceSoftwareUpdateResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "CancelElasticsearchServiceSoftwareUpdateResponse",
  "variableName" : "cancelElasticsearchServiceSoftwareUpdateResponse",
  "variableType" : "CancelElasticsearchServiceSoftwareUpdateResponse",
  "documentation" : null,
  "simpleType" : "CancelElasticsearchServiceSoftwareUpdateResponse",
  "variableSetterType" : "CancelElasticsearchServiceSoftwareUpdateResponse"
},
"wrapper" : false
}

"CognitoOptions" : {
  "c2jName" : "CognitoOptions",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getEnabled",
  "beanStyleSetterMethodName" : "setEnabled",
  "c2jName" : "Enabled",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
  This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link enabled(Boolean)}.
  
  @param enabled a consumer that will call methods on {@link Boolean.Builder}
  @return Returns a reference to this object so that method calls can be chained together.
  @see #enabled(Boolean)
  
  "deprecated" : false,
  "documentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "enabled",
  "fluentSetterMethodName" : "enabled",
  "fluentSetterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>"
  
  @param enabled Specifies the option to enable Cognito for Kibana authentication.
  @return Returns a reference to this object so that method calls can be chained together.
  @see #enabled(Boolean)
  
  "getterDocumentation" : "<p> Specifies the option to enable Cognito for Kibana authentication. </p>
  "getterModel" : {
    "returnType" : "Boolean",
    "documentation" : null
  },
}
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "Enabled",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "Enabled",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "Enabled",
"sensitive": false,
"setterDocumentation": "<p>Specifies the option to enable Cognito for Kibana authentication.</p>\n\n@param enabled Specifies the option to enable Cognito for Kibana authentication."
,  
"setterMethodName": "setEnabled",
"setterModel": {
  "variableDeclarationType": "Boolean",
  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": "<p>Specifies the option to enable Cognito for Kibana authentication.</p>\n\n@p>Enabled Specifies the option to enable Cognito for Kibana authentication."
,  
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
"documentation": "Specifies the Cognito user pool ID for Kibana authentication.

When the [link Consumer] completes, [link String.Builder#build] is called immediately and its result is passed to [link String.setUserPoolId] a consumer that will call methods on [link String.Builder]

@method sees [link #setDescription(String)]

@method specifies [link String.setUserPoolId(String)]

@method returns a reference to this object so that method calls can be chained together.

@method of the [link String.Builder]

@method call

@method chain

@method together.

@method of [link String.setUserId(String)]
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UserPoolId",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@param userPoolId Specifies the Cognito user pool ID for Kibana authentication.",
"setterMethodName" : "setUserPoolId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "userPoolId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "userPoolId",
  "variableType" : "String",
  "documentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getIdentityPoolId",
 "beanStyleSetterMethodName" : "setIdentityPoolId",
 "c2jName" : "IdentityPoolId",
 "c2jShape" : "IdentityPoolId",
 "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #identityPoolId(String)}. Returns a reference to this object so that method calls can be chained together.
@see #identityPoolId(String)",
 "deprecated" : false,
 "documentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>",
 "enumType" : "null",
 "eventHeader" : "null",
 "eventPayload" : "null",
 "fluentEnumGetterMethodName" : "null"}
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "identityPoolId",
"fluentSetterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "identityPoolId",
"getterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@return Specifies the Cognito identity pool ID for Kibana authentication.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
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"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "IdentityPoolId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "IdentityPoolId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "IdentityPoolId",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.",
"setterMethodName" : "setIdentityPoolId",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "identityPoolId",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
"simple": true,
"timestampFormat": null,
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  "variableName": "identityPoolId",
  "variableType": "String",
  "documentation": "Specifies the Cognito identity pool ID for Kibana authentication."
},
"xmlnsNameSpaceUri": null
}, {
  "beanStyleGetterMethodName": "getRoleArn",
  "beanStyleSetterMethodName": "setRoleArn",
  "c2jName": "RoleArn",
  "c2jShape": "RoleArn",
  "defaultConsumerFluentSetterDocumentation": "Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually. When the Consumer completes, String.Builder#build() is called immediately and its result is passed to #roleArn(String) a consumer that will call methods on String.Builder. Returns a reference to this object so that method calls can be chained together.

  @param roleArn a consumer that will call methods on String.Builder
  @return Returns a reference to this object so that method calls can be chained together.
  @see #roleArn(String)",
  "deprecated": false,
  "documentation": "Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources."
},
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "roleArn",
"fluentSetterDocumentation": "Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.

  @param roleArn Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.
  @return Returns a reference to this object so that method calls can be chained together.
  @see #roleArn(String)",
  "fluentSetterMethodName": "roleArn",
  "getterDocumentation": "Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.

  @param roleArn Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.
  @return Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.
  @see #roleArn(String)",
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
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    "additionalUnmarshallingPath": null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RoleArn",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RoleArn",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "RoleArn",
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "roleArn",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} 

"setterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>

@\n\n\n@param roleArn Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.",
"setterMethodName" : "setRoleArn",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "roleArn",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple": true,
"variable": {
"variableDeclarationType" : "String",
"variableName" : "roleArn",
"variableType" : "String",
"documentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} 


"membersAsMap" : {
  "Enabled" : {
    "beanStyleGetterMethodName" : "getEnabled",
    "beanStyleSetterMethodName" : "setEnabled",
    "c2jName" : "Enabled",
    "c2jShape" : "Boolean",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication. This is a convenience that creates an instance of the { @link Boolean.Builder } avoiding the need to create one manually via { @link Boolean.Builder#builder() }. When the { @link Consumer } completes, { @link Boolean.Builder#build() } is called immediately and its result is passed to { @link #enabled(Boolean) }. param enabled a consumer that will call methods on { @link Boolean.Builder } return Returns a reference to this object so that method calls can be chained together. see #enabled(Boolean)",
    "deprecated" : false,
    "documentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "enabled",
    "fluentSetterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
    @param enabled Specifies the option to enable Cognito for Kibana authentication.
    @return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "enabled",
    "getterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
    @return Specifies the option to enable Cognito for Kibana authentication.",
    "getterModel" : {
      "returnType" : "Boolean",
      "documentation" : null
    },
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      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : null,
      "marshallLocation" : "PAYLOAD",
      "marshallLocationName" : "Enabled",
      "queryString" : false,
      "statusCode" : false,
      "unmarshallLocationName" : "Enabled",
      "uri" : false
    },
    "idempotencyToken" : false,
  }
}
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "Enabled",
"sensitive": false,

"setterDocumentation": "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
@param enabled Specifies the option to enable Cognito for Kibana authentication.",

"setterMethodName": "setEnabled",

"setterModel": {
  "variableDeclarationType": "Boolean",
  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,

timestampFormat": null,

"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": "Specifies the option to enable Cognito for Kibana authentication.",
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},

"xmlNameSpaceUri": null
},

"IdentityPoolId": {
  "beanStyleGetterMethodName": "getIdentityPoolId",
  "beanStyleSetterMethodName": "setIdentityPoolId",
  "c2jName": "IdentityPoolId",
  "c2jShape": "IdentityPoolId",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #identityPoolId(String)}.\n\n@param identityPoolId a consumer that will call methods on {@link String.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #identityPoolId(String)",
  "deprecated": false,
  "documentation": "Specifies the Cognito identity pool ID for Kibana authentication.",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventId": false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "identityPoolId",
"fluentSetterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.
@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "identityPoolId",
"getterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@return Specifies the Cognito identity pool ID for Kibana authentication.
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
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"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "IdentityPoolId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "IdentityPoolId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "IdentityPoolId",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.
"setterMethodFullName" : "setIdentityPoolId",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "identityPoolId",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "identityPoolId",
"variableType" : "String",
"documentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"RoleArn" : {
"beanStyleGetterMethodName" : "getRoleArn",
"beanStyleSetterMethodName" : "setRoleArn",
"c2jName" : "RoleArn",
"c2jShape" : "RoleArn",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #roleArn(String)}\n\n@see #roleArn(String)",
"deprecated" : false,
"documentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "roleArn",
"fluentSetterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>\n@see roleArn(String)",
"getterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>",
"getterModel" : {
"returnType" : "String",
"documentation" : null
}
}
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
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    "isPayload" : false,
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    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "RoleArn",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "RoleArn",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "RoleArn",
"sensitive" : false,
"setterDocumentation" : "\n\nSpecifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.\n\n\n@param roleArn Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.\n",
"setterMethodName" : "setRoleArn",
"setterModel" : {
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    "variableName" : "roleArn",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "roleArn",
    "variableType" : "String",
    "documentation" : "\n\nSpecifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.\n",
    "simpleType" : "String",
    "variableSetterType" : "String"}
"UserPoolId": {
  "beanStyleGetterMethodName": "getUserPoolId",
  "beanStyleSetterMethodName": "setUserPoolId",
  "c2jName": "UserPoolId",
  "c2jShape": "UserPoolId",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #userPoolId(String)\}.
@returns Returns a reference to this object so that method calls can be chained together.\n@see #userPoolId(String)",
  "deprecated": false,
  "documentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "userPoolId",
  "fluentSetterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@returns Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName": "userPoolId",
  "getterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@returns Returns a reference to this object so that method calls can be chained together.",
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
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    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "UserPoolId",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "UserPoolId",
    "uri": false
"setterMethodDocumentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@param userPoolId Specifies the Cognito user pool ID for Kibana authentication."

"setterMethodName" : "setUserPoolId",

"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "userPoolId",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "userPoolId",
    "variableType" : "String",
    "documentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
    "c2jName" : "Enabled",
    "c2jShape" : "Boolean",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
    <p>This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean.Builder#builder()}.
    <p>When the { @link Consumer } completes,  {@link Boolean.Builder#build()} is called immediately and its result is passed to { @link enabled(Boolean) }.</p>
    @param enabled a consumer that will call methods on { @link Boolean.Builder }.
    @return Returns a reference to this object so that method calls can be chained together.
    @see #enabled(Boolean)
    "
    "deprecated" : false,
    "documentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "enabled",
"fluentSetterMethodName" : "enabled",
"fluentSetterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
@param enabled Specifies the option to enable Cognito for Kibana authentication.
@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
@return Specifies the option to enable Cognito for Kibana authentication.",
"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
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  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Enabled",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Enabled",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"敏感" : false,
"setterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
@param enabled Specifies the option to enable Cognito for Kibana authentication.
@return Specifies the option to enable Cognito for Kibana authentication.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "returnType" : "Boolean",
  "documentation" : null
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"variableName": "enabled",
"variableType": "Boolean",
"documentation": null,
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "Boolean",
"variableName": "enabled",
"variableType": "Boolean",
"documentation": "<p>Specifies the option to enable Cognito for Kibana authentication.</p>",
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
},
{"beanStyleGetterMethodName": "getUserPoolId",
"beanStyleSetterMethodName": "setUserPoolId",
"c2jName": "UserPoolId",
"c2jShape": "UserPoolId",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #userPoolId(String)}. 
@Deprecated
@see #userPoolId(String)

@deprecated
"deprecated": false,
"documentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "userPoolId",
"fluentSetterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@param userPoolId Specifies the Cognito user pool ID for Kibana authentication.
@return Returns a reference to this object so that method calls can be chained together.
@see #userPoolId(String)",
"getterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@Deprecated
@see #userPoolId(String)

@deprecated
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
"additionalMarshallingPath" : null,
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"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UserPoolId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UserPoolId",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UserPoolId",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@param userPoolId Specifies the Cognito user pool ID for Kibana authentication.",
"setterMethodName" : "setUserPoolId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "userPoolId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "userPoolId",
  "variableType" : "String",
  "documentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null}
]
"beanStyleGetterMethodName" : "getIdentityPoolId",
"beanStyleSetterMethodName" : "setIdentityPoolId",
"c2jName" : "IdentityPoolId",
"c2jShape" : "IdentityPoolId",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #identityPoolId(String)}. Return Returns a reference to this object so that method calls can be chained together."
@return Returns a reference to this object so that method calls can be chained together.
@see #identityPoolId(String)",
"deprecated" : false,
"documentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "identityPoolId",
"fluentSetterDocumentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.
@return Returns a reference to this object so that method calls can be chained together.
@see #identityPoolId(String)",
"GET" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "IdentityPoolId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "IdentityPoolId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "IdentityPoolId",
"sensitive": false,
"setterDocumentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.",
"setterMethodName": "setIdentityPoolId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "identityPoolId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "identityPoolId",
  "variableType": "String",
  "documentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getRoleArn",
"beanStyleSetterMethodName": "setRoleArn",
"c2jName": "RoleArn",
"c2jShape": "RoleArn",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>\nThis is a convenience that creates an instance of the @link String.Builder avoiding the need to create one manually via {@link String.Builder#builder()}.\nWhen the @link Consumer completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #roleArn(String)} a consumer that will call methods on {@link String.Builder}\n@returns a reference to this object so that method calls can be chained together.\n@see #roleArn(String)",
"deprecated": false,
"documentation": "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>\nendpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "roleArn",
"fluentSetterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>
@param roleArn Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "roleArn",
"getterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>
@return Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
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  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "RoleArn",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "RoleArn",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "RoleArn",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>
@param roleArn Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.
", 
"setterMethodName" : "setRoleArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "roleArn",
  "variableType" : "String"}
<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>
"enums": null,
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [
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    "beanStyleSetterMethodName": "setOptions",
    "c2jName": "Options",
    "c2jShape": "CognitoOptions",
    "defaultConsumerFluentSetterDocumentation": "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>\nThis is a convenience that creates an instance of the {@link CognitoOptions.Builder} avoiding the need to create one manually via {@link CognitoOptions.Builder#builder()}\n\nWhen the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to {@link #options(CognitoOptions)}.\n@see #options(CognitoOptions)",
    "deprecated": false,
    "documentation": "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "options",
    "fluentSetterMethodName": "options",
    "fluentSetterDocumentation": "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>\n@see #options(CognitoOptions)",
    "getterDocumentation": "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>\n@see #options(CognitoOptions)",
    "getterModel": {
      "returnType": "CognitoOptions",
      "documentation": null
    },
    "http": {
      "additionalMarshallingPath": null,
      "additionalUnmarshallingPath": null,
      "flattened": false,
      "greedy": false,
      "header": false,
    }
  }
]
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
@param options Specifies the Cognito options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "options",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "options",
  "variableType" : "CognitoOptions",
  "documentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>",
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the Cognito options for the
This is a convenience that creates an instance of the `@link OptionStatus.Builder` avoiding the need to create one manually via `@link OptionStatus#builder()`. When the `@link OptionStatus.Builder#build()` is called immediately and its result is passed to `@link OptionStatus.Builder#status(OptionStatus)`.

@see #status(OptionStatus)

"deprecated" : false,
"documentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the Cognito options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)

"getterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
@return Specifies the status of the Cognito options for the specified Elasticsearch domain.

@see #status(OptionStatus)

"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
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"http" : {
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  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the Cognito options for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "Options" : {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "CognitoOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the \[@link CognitoOptions.Builder\] avoiding the need to create one manually via \[@link CognitoOptions#builder()\].\nWhen the \[@link Consumer\] completes, \[@link CognitoOptions.Builder#build()\] is called immediately and its result is passed to \[@link #options(CognitoOptions)\].\n\n@see #options(CognitoOptions)\n@deprecated\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(CognitoOptions)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>",
  "endpointDiscoveryId" : null,
  "eventIdHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "enumType" : null,
  "documentation" : null,
  "parameterType" : null,
  "xmlNameSpaceUri" : null
}
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
@param options Specifies the Cognito options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
@return Specifies the Cognito options for the specified Elasticsearch domain.",
"getterModel" : {
  "returnType" : "CognitoOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
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  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
@param options Specifies the Cognito options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "options",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
}
"simple": false,
"timestampFormat": null,
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  "variableType": "CognitoOptions",
  "documentation": "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>",
  "simpleType": "CognitoOptions",
  "variableSetterType": "CognitoOptions"
},
"xmlNameSpaceUri": null
},
"Status": {
  "beanStyleGetterMethodName": "getStatus",
  "beanStyleSetterMethodName": "setStatus",
  "c2jName": "Status",
  "c2jShape": "OptionStatus",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>\nThis is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}.\n\nWhen the {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link OptionStatus.Builder#status(OptionStatus)} as a consumer that will call methods on {@link OptionStatus.Builder#status(OptionStatus)}.
\n@see #status(OptionStatus)",
  "deprecated": false,
  "documentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "status",
  "fluentSetterDocumentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>\n\nWhen the {@link OptionStatus.Builder#status(OptionStatus)} is called immediately and its result is passed to {@link OptionStatus.Builder#status(OptionStatus)} as a consumer that will call methods on {@link OptionStatus.Builder#status(OptionStatus)}.
\n@see #status(OptionStatus)",
  "getterDocumentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
  @param status Specifies the status of the Cognito options for the specified Elasticsearch domain.\n  @return Returns a reference to this object so that method calls can be chained together.
  \n  @see #status(OptionStatus)",
  "getterModel": {
    "returnType": "OptionStatus",
    "documentation": null
  },
  "http": {
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    "additionalUnmarshallingPath": null,
    "flattened": false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the Cognito options for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "CognitoOptions",
"defaultConsumerFluentSetterDocumentation" : "\n\n<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>\nThis is a convenience that creates an instance of the \{@link CognitoOptions.Builder\} avoiding the need to create one manually via \{@link CognitoOptions#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link CognitoOptions.Builder#build()\} is called immediately and its result is passed to \{@link #options(CognitoOptions)\}.\n\n@param options a consumer that will call methods on \{@link CognitoOptions.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #options(CognitoOptions)",
"deprecated" : false,
"documentation" : "\n\n<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "\n\n<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #options(CognitoOptions)",
"getterDocumentation" : "\n\n<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>\n@return Specifies the Cognito options for the specified Elasticsearch domain.\n\n@see #options(CognitoOptions)",
"getterModel" : {
"returnType" : "CognitoOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Options",
"sensitive": false,
"setterDocumentation": "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
@param options Specifies the Cognito options for the specified Elasticsearch domain.

"setterMethodName": "setOptions",
"setterModel": {
  "variableDeclarationType": "CognitoOptions",
  "variableName": "options",
  "variableType": "CognitoOptions",
  "documentation": null,
  "simpleType": "CognitoOptions",
  "variableSetterType": "CognitoOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "CognitoOptions",
  "variableName": "options",
  "variableType": "CognitoOptions",
  "documentation": "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
"simpleType": "CognitoOptions",
  "variableSetterType": "CognitoOptions"
},
"xmlnsSpaceUri": null
}, {
  "beanStyleGetterMethodName": "getStatus",
  "beanStyleSetterMethodName": "setStatus",
  "c2jName": "Status",
  "c2jShape": "OptionStatus",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus#builder()}. When the {@link Consumer} completes, the method is called immediately and its result is passed to the builder. A consumer that will accept methods on the builder can be chained together. 
@see #status(OptionStatus)
  
  "deprecated": false,
  "documentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : 
"<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.<br/>
@param status Specifies the status of the Cognito options for the specified Elasticsearch domain.<br/>
@return Returns a reference to this object so that method calls can be chained together.
</p>
"fluentSetterMethodName" : "status",
"getterDocumentation" : 
"<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.<br/>
@return Specifies the status of the Cognito options for the specified Elasticsearch domain.<br/>
</p>
"getterModel" : { 
"returnType" : "OptionStatus",
"documentation" : null
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"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : 
"<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.<br/>
@returns Specifies the status of the Cognito options for the specified Elasticsearch domain.<br/>
</p>
"setterMethodName" : "setStatus",
"setterModel" : { 
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : null,
"simpleType" : "OptionStatus"
"variableSetterType" : "OptionStatus",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "CognitoOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "CognitoOptionsStatus",
"variableName" : "cognitoOptionsStatus",
"variableType" : "CognitoOptionsStatus",
"documentation" : null,
"simpleType" : "CognitoOptionsStatus",
"variableSetterType" : "CognitoOptionsStatus"
},
"wrapper" : false
},
"CompatibleVersionsMap" : {
"c2jName" : "CompatibleVersionsMap",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> A map from an <code> <a>ElasticsearchVersion</a> </code> to a list of compatible <code> <a>ElasticsearchVersion</a> </code> s to which the domain can be upgraded. </p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getSourceVersion",
  "beanStyleSetterMethodName" : "setSourceVersion",
  "c2jName" : "SourceVersion",
  "c2jShape" : "ElasticsearchVersionString",
  "defaultConsumerFluentSetterDocumentation" : "The current version of Elasticsearch on which a domain is.
This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()].
When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [sourceVersion(String)].
@param sourceVersion a consumer that will call methods on [String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #sourceVersion(String)",
  "deprecated" : false,
  "documentation" : "The current version of Elasticsearch on which a domain is.
@endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "sourceVersion",
  "fluentSetterDocumentation" : "The current version of Elasticsearch on which a domain is.
@param sourceVersion The current version of Elasticsearch on which a domain is.
@return Returns a reference to this object so that method calls can be chained together.
@see #sourceVersion(String)",
  "fluentSetterMethodName" : "sourceVersion",
  "getterDocumentation" : "The current version of Elasticsearch on which a domain is.
@return The current version of Elasticsearch on which a domain is.
@endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "sourceVersion",
  "fluentSetterDocumentation" : "The current version of Elasticsearch on which a domain is.
@param sourceVersion The current version of Elasticsearch on which a domain is.
@return Returns a reference to this object so that method calls can be chained together.
@see #sourceVersion(String)",
  "fluentSetterMethodName" : "sourceVersion",
  "getterDocumentation" : "The current version of Elasticsearch on which a domain is.
@return The current version of Elasticsearch on which a domain is.
@http" : { 
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false, 
},
"http": {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
}
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "SourceVersion",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "SourceVersion",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "SourceVersion",
"setterMethodName": "setSourceVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "sourceVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "sourceVersion",
  "variableType": "String",
  "documentation": "The current version of Elasticsearch on which a domain is.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

"getterMethodName": "getSourceVersion",
"getterModel": {
  "variableDeclarationType": "String",
  "variableName": "sourceVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableGetterType": "String"
},
"defaultConsumerDocument": "The current version of Elasticsearch on which a domain is.",
"getterDocument": "The current version of Elasticsearch on which a domain is.",
"getterSetterDocument": "The current version of Elasticsearch on which a domain is.",
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "SourceVersion",
"setterMethodName": "setSourceVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "sourceVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "sourceVersion",
  "variableType": "String",
  "documentation": "The current version of Elasticsearch on which a domain is.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

"beanStyleSetterMethodName": "setTargetVersions",
"beanStyleGetterMethodName": "getTargetVersions",
"c2jName": "TargetVersions",
"c2jShape": "ElasticsearchVersionList",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the TargetVersions property for this object.\nThis is a convenience that creates an instance of the \[@link List<String>.Builder\] avoiding the need to create one manually via \[@link List<String>#builder()\].\nWhen the \[@link Consumer\] completes, \[@link
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "ElasticsearchVersionString",
"defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String.Builder()].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@defaultConsumerFluentSetter returns a reference to this object so that method calls can be chained together.

@see #member(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@freturn Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

The value of the Member property for this object.

@freturn The value of the Member property for this object.",
"getModel" : {

"returnType" : "String",
"documentation" : null
},
"http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"setterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "targetVersions",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "targetVersions",
"variableType" : "java.util.List<String>",
"documentation" : "",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
"SourceVersion" : {
"beanStyleGetterMethodName" : "getSourceVersion",
"beanStyleSetterMethodName" : "setSourceVersion",
"c2jName" : "SourceVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()}) is called immediately and its result is passed to {@link #sourceVersion(String)}.

@see #sourceVersion(String)
@deprecated"
"documentation" : "The current version of Elasticsearch on which a domain is.
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "sourceVersion",
"fluentSetterDocumentation" : "The current version of Elasticsearch on which a domain is.
@see #sourceVersion(String)"
"getterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "targetVersions",
"variableType" : "java.util.List<String>",
"documentation" : "",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "targetVersions",
"variableType" : "java.util.List<String>",
"documentation" : "",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
]}. 
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SourceVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SourceVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "SourceVersion",
"sensitive" : false,
"setterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>
@param sourceVersion The current version of Elasticsearch on which a domain is.",
"setterMethodName" : "setSourceVersion",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "sourceVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "sourceVersion",
"variableType" : "String",
"documentation" : "<p>The current version of Elasticsearch on which a domain is.</p>",
"simpleType" : "String"
"variableSetterType" : "String",
},
"xmlNameSpaceUri" : null
},
"TargetVersions" : {
"beanStyleGetterMethodName" : "getTargetVersions",
"beanStyleSetterMethodName" : "setTargetVersions",
"c2jName" : "TargetVersions",
"c2jShape" : "ElasticsearchVersionList",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the TargetVersions property for this object. This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #targetVersions(List<String>)}. @param targetVersions a consumer that will call methods on {@link List<String>.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #targetVersions(List<String>)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "targetVersions",
"fluentSetterDocumentation" : "Sets the value of the TargetVersions property for this object.

This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #targetVersions(List<String>)}. @param targetVersions The new value for the TargetVersions property for this object.@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "targetVersions",
"getterDocumentation" : "Returns the value of the TargetVersions property for this object.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

The value of the 'TargetVersions' property for this object."
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ElasticsearchVersionString",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [\link String.Builder] avoiding the need to create
one manually via \{\link String.Builder\}.\nWhen the [\link Consumer] completes, [\link
String.Builder\#build()] is called immediately and its result is passed to [\link #member(String)].\n\n@see #member(String)
  
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)
  
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)
  
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)
  
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)
  
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TargetVersions",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the TargetVersions property for this object.

@param targetVersions The new value for the TargetVersions property for this object."
,"setterMethodName" : "setTargetVersions",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "targetVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "targetVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
},
"xmlNameSpaceUri" : null
],
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getSourceVersion",
  "beanStyleSetterMethodName" : "setSourceVersion",
  "c2jName" : "SourceVersion",
  "c2jShape" : "ElasticsearchVersionString",
  "defaultConsumerFluentSetterDocumentation" : "The current version of Elasticsearch on which a domain is.

This is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via {link String#builder()}. When the {link Consumer} completes, {link String.Builder#build()} is called immediately and its result is passed to {link sourceVersion(String)}.

@see sourceVersion(String)",
  "deprecated" : false,
  "documentation" : "The current version of Elasticsearch on which a domain is.",
  "endpointDiscoveryId" : false,
  "enumType" : null,
}]}
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "sourceVersion",
"fluentSetterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>
@param sourceVersion The current version of Elasticsearch on which a domain is.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "sourceVersion",
"getterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>
@return The current version of Elasticsearch on which a domain is.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "SourceVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "SourceVersion",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "SourceVersion",
"sensitive" : false,
"setterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>
@param sourceVersion The current version of Elasticsearch on which a domain is.",
"setterMethodName" : "setSourceVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "sourceVersion",
  "variableType" : "String"}
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "sourceVersion",
  "variableType": "String",
  "documentation": "The current version of Elasticsearch on which a domain is.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlnsSpaceUri": null
},
{"beanStyleGetterMethodName": "getTargetVersions",
"beanStyleSetterMethodName": "setTargetVersions",
"c2jName": "TargetVersions",
"c2jShape": "ElasticsearchVersionList",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the TargetVersions property for this object. This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #targetVersions(List<String>)}.\n\n@deprecated\n\n@see \n\n@targetVersions(List<String>)",
"deprecated": false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "targetVersions",
"fluentSetterDocumentation": "Sets the value of the TargetVersions property for this object. The new value for the TargetVersions property for this object so that method calls can be chained together.\n\n@param targetVersions a consumer that will call methods on {\link List<String>.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together."
,
"fluentSetterMethodName": "targetVersions",
"getterDocumentation": "Returns the value of the TargetVersions property for this object.\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationExpection.\n\n\n@return The value of the TargetVersions property for this object."
,
"getterModel": {
  "returnType": "java.util.List<String>",
  "documentation": null
},
"http": {
}
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ElasticsearchVersionString",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #member(String)}.

@see #member(String)
\n@deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object.\n@see #member(String)\n\n@return Returns a reference to this object so that method calls can be chained together."
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object."
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
" sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "member",
    "variableType" : "String",
    "documentation" : ""
  }
}
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "TargetVersions",
"sensitive": false,
"setterDocumentation": "Sets the value of the TargetVersions property for this object.

@param

targetVersions The new value for the TargetVersions property for this object.",
"setterMethodName": "setTargetVersions",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "targetVersions",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>",
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "targetVersions",
  "variableType": "java.util.List<String>",
  "documentation": "",
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
}]},
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "CompatibleVersionsMap",
"simpleMethod": false,
"unmarshaller" : {
    "flattened" : false,
    "resultWrapper" : null
},
"variable" : {
    "variableDeclarationType" : "CompatibleVersionsMap",
    "variableName" : "compatibleVersionsMap",
    "variableType" : "CompatibleVersionsMap",
    "documentation" : null,
    "simpleType" : "CompatibleVersionsMap",
    "variableSetterType" : "CompatibleVersionsMap"
},
"wrapper" : false
},
"CreateElasticsearchDomainRequest" : {
    "c2jName" : "CreateElasticsearchDomainRequest",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscovery" : null,
    "enums" : null,
    "errorCode" : null,
    "event" : false,
    "eventStream" : false,
    "explicitEventPayloadMember" : null,
    "hasHeaderMember" : false,
    "hasPayloadMember" : false,
    "hasStatusCodeMember" : false,
    "hasStreamingMember" : false,
    "httpStatusCode" : null,
    "marshaller" : {
        "action" : "CreateElasticsearchDomain",
        "locationName" : null,
        "requestUri" : "/2015-01-01/es/domain",
        "target" : null,
        "verb" : "POST",
        "xmlNameSpaceUri" : null
    },
    "members" : [
        {
            "beanStyleGetterMethodName" : "getDomainName",
            "beanStyleSetterMethodName" : "setDomainName",
            "c2jName" : "DomainName",
            "wrapper" : false
        }
    ]
}
"c2jShape": "DomainName",
"defaultConsumerFluentSetterDocumentation": "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<\p>\n\nThis is a convenience that creates an instance of the {\@link String.Builder} avoiding the need to create one manually via {\@link String#builder()}.\n\nWhen the {\@link Consumer} completes, {\@link String.Builder#build()} is called immediately and its result is passed to {\@link #domainName(String)}.\n\n@param domainName a consumer that will call methods on {\@link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #domainName(String)",
"deprecated": false,
"documentation": "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "domainName",
"fluentSetterDocumentation": "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>
\n@return Returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName": "domainName",
"getterDocumentation": "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>
\n@return The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen)."

"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD"}
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>
@param domainName The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getElasticsearchVersion",
  "beanStyleSetterMethodName" : "setElasticsearchVersion",
  "c2jName" : "ElasticsearchVersion"
"c2jShape" : "ElasticsearchVersionString",

"defaultConsumerFluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target="_blank"]>Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.
When the [{@link Consumer} completes, [{@link String.Builder#build()}]] is called immediately and its result is passed to [{@link #elasticsearchVersion(String)}].\n\n@see #elasticsearchVersion(String)",

"deprecated" : false,

"documentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target="_blank"]>Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.</p>",

"endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "elasticsearchVersion",

"fluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target="_blank"]>Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.</p>

@see #elasticsearchVersion(String)",

"getterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target="_blank"]>Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.</p>

@see #elasticsearchVersion(String)",

"getterModel" : {

"returnType" : "String",

"documentation" : null
},

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. "1.5" or "2.3". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the Amazon Elasticsearch Service Developer Guide</p>.\n@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain eg. "1.5" or "2.3". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the Amazon Elasticsearch Service Developer Guide</p>.\n
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. "1.5" or "2.3". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the Amazon Elasticsearch Service Developer Guide</p>.

"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
Creating Elasticsearch Domains

From the Amazon Elasticsearch Service Developer Guide:

"Creating Elasticsearch Domains" in the Amazon Elasticsearch Service Developer Guide.

Specifies the instance type and number of instances in the domain cluster.

This is a convenience that creates an instance of the ElasticsearchClusterConfig.Builder avoiding the need to create one manually via ElasticsearchClusterConfig#builder(). When the ElasticsearchClusterConfig.Builder#build() is called immediately and its result is passed to ElasticsearchClusterConfig a consumer that will call methods on ElasticsearchClusterConfig.Builder#return Returns a reference to this object so that method calls can be chained together.

Configuration options for an Elasticsearch domain.

Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.

Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.

Configuration options for an Elasticsearch domain.

Configuration options for an Elasticsearch domain.

Configuration options for an Elasticsearch domain.

Configuration options for an Elasticsearch domain.
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"sensitive" : false,
"setterDocumentation" : "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>
@param elasticsearchClusterConfig Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>
"simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "Options to enable, disable and specify the type and size of EBS storage volumes. This is a convenience that creates an instance of the {@link EBSOptions.Builder} avoiding the need to create one manually via {@link EBSOptions#builder()}.

When the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link EBSOptions.EBSOptions} a consumer that will call methods on {@link EBSOptions.Builder}.

@return Returns a reference to this object so that method calls can be chained together.

@see #ebsOptions(EBSOptions)",

"deprecated" : false,
"documentation" : "Options to enable, disable and specify the type and size of EBS storage volumes.

When the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link EBSOptions.EBSOptions} a consumer that will call methods on {@link EBSOptions.Builder}.

@return Returns a reference to this object so that method calls can be chained together.

@see #ebsOptions(EBSOptions)",

"deprecated" : false,
"documentation" : "Options to enable, disable and specify the type and size of EBS storage volumes.

When the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link EBSOptions.EBSOptions} a consumer that will call methods on {@link EBSOptions.Builder}.

@return Returns a reference to this object so that method calls can be chained together.

@see #ebsOptions(EBSOptions)",

"deprecated" : false,
"documentation" : "Options to enable, disable and specify the type and size of EBS storage volumes.

When the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link EBSOptions.EBSOptions} a consumer that will call methods on {@link EBSOptions.Builder}.

@return Returns a reference to this object so that method calls can be chained together.

@see #ebsOptions(EBSOptions)",

"deprecated" : false,
"documentation" : "Options to enable, disable and specify the type and size of EBS storage volumes.

When the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link EBSOptions.EBSOptions} a consumer that will call methods on {@link EBSOptions.Builder}.

@return Returns a reference to this object so that method calls can be chained together.

@see #ebsOptions(EBSOptions)",

"deprecated" : false,
"documentation" : "Options to enable, disable and specify the type and size of EBS storage volumes.

When the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link EBSOptions.EBSOptions} a consumer that will call methods on {@link EBSOptions.Builder}.

@return Returns a reference to this object so that method calls can be chained together.

@see #ebsOptions(EBSOptions)",
Options to enable, disable and specify the type and size of EBS storage volumes.

```java
@param ebsOptions Options to enable, disable and specify the type and size of EBS storage volumes.

setterMethodName" : "setEbsOptions",
setterModel" : {
  variableDeclarationType" : "EBSOptions",
  variableName" : "ebsOptions",
  variableType" : "EBSOptions",
  documentation" : null,
  simpleType" : "EBSOptions",
  variableSetterType" : "EBSOptions"
},

simple" : false,
timestampFormat" : null,
variable" : {
  variableDeclarationType" : "EBSOptions",
  variableName" : "ebsOptions",
  variableType" : "EBSOptions",
  documentation" : "Options to enable, disable and specify the type and size of EBS storage volumes.

xmlNameSpaceUri" : null
},

beanStyleGetterMethodName" : "getAccessPolicies",
beanStyleSetterMethodName" : "setAccessPolicies",
c2jName" : "AccessPolicies",
c2jShape" : "PolicyDocument",
defaultConsumerFluentSetterDocumentation" : "IAM access policy as a JSON-formatted string.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, it is called immediately and its result is passed to {@link #accessPolicies(String)}. When a fluent accessPolicies a consumer that will call methods on it will return Returns a reference to this object so that method calls can be chained together.

@see #accessPolicies(String)",
deprecated" : false,
documentation" : "IAM access policy as a JSON-formatted string.

endpointDiscoveryId" : false,
enumType" : null,
eventHeader" : false,
eventPayload" : false,
fluentEnumGetterMethodName" : null,
fluentEnumSetterMethodName" : null,
fluentGetterMethodName" : "accessPolicies",
fluentSetterDocumentation" : "IAM access policy as a JSON-formatted string.

@param
accessPolicies IAM access policy as a JSON-formatted string.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p> IAM access policy as a JSON-formatted string. </p>

@return IAM access policy as a JSON-formatted string.

getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"sensitive" : false,
"setterDocumentation" : "<p> IAM access policy as a JSON-formatted string. </p>

@param accessPolicies IAM access policy as a JSON-formatted string.

setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "accessPolicies",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,
"variable": {
"variableDeclarationType": "String",
"variableName": "accessPolicies",
"variableType": "String",
"documentation": "<p> IAM access policy as a JSON-formatted string.</p>",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlnsNameSpaceUri": null
},

"beanStyleGetterMethodName": "getSnapshotOptions",
"beanStyleSetterMethodName": "setSnapshotOptions",
"c2jName": "SnapshotOptions",
"c2jShape": "SnapshotOptions",
"defaultValueConsumerFluentSetterDocumentation": "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>\nThis is a convenience that creates an instance of the [@link SnapshotOptions.Builder] avoiding the need to create one manually via [@link SnapshotOptions#builder()].\n\nWhen the [@link Consumer] completes, [@link SnapshotOptions.Builder#build()] is called immediately and its result is passed to [@link SnapshotOptions(SnapshotOptions)].\n\n@param snapshotOptions a consumer that will call methods on [@link SnapshotOptions.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #snapshotOptions(SnapshotOptions)",
"deprecated": false,
"documentation": "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>",
"endpointDiscoveryId": false,
"eventType": null,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "snapshotOptions",
"fluentSetterDocumentation": "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>\n\n@return Returns a reference to this object so that method calls can be chained together."
,
"getterDocumentation": "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>\n\n@return Returns a reference to this object so that method calls can be chained together."
,
"getterModel": {
"returnType": "SnapshotOptions",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "SnapshotOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "SnapshotOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "SnapshotOptions",
"sensitive": false,
"setterDocumentation": "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>@param snapshotOptions Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.",
"setterMethodName": "setSnapshotOptions",
"setterModel": {
  "variableDeclarationType": "SnapshotOptions",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptions",
  "documentation": null,
  "simpleType": "SnapshotOptions",
  "variableSetterType": "SnapshotOptions"
},
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "SnapshotOptions",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptions",
  "documentation": "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>",
  "simpleType": "SnapshotOptions",
  "variableSetterType": "SnapshotOptions"
},
"xmlNameSpaceUri": null
}
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>\n\nThis is a convenience that creates an instance of the { @link VPCOptions.Builder} avoiding the need to create one manually via { @link VPCOptions#builder()} .\n\nWhen the { @link Consumer} completes, { @link VPCOptions.Builder#build()} is called immediately and its result is passed to { @link vpcOptions(VPCOptions)} .\n\n@param vpcOptions a consumer that will call methods on { @link VPCOptions.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #vpcOptions(VPCOptions)",
"deprecated" : false,
"documentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n</p>\n\nWhen the { @link Consumer} completes, { @link VPCOptions.Builder#build()} is called immediately and its result is passed to { @link vpcOptions(VPCOptions)} .\n\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #vpcOptions(VPCOptions)"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterMethodName" : "vpcOptions",
"fluentSetterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n</p>\n\nWhen the { @link Consumer} completes, { @link VPCOptions.Builder#build()} is called immediately and its result is passed to { @link vpcOptions(VPCOptions)} .\n\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #vpcOptions(VPCOptions)"
"getterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n</p>\n\nWhen the { @link Consumer} completes, { @link VPCOptions.Builder#build()} is called immediately and its result is passed to { @link vpcOptions(VPCOptions)} .\n\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #vpcOptions(VPCOptions)"
"getterModel" : {
  "returnType" : "VPCOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "VPCOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "VPCOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "VPCOptions",
"sensitive": false,
"setterDocumentation": "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc\" target="_blank\">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.",
"setterMethodName": "setVpcOptions",
"setterModel": {
  "variableDeclarationType": "VPCOptions",
  "variableName": "vpcOptions",
  "variableType": "VPCOptions",
  "documentation": null,
  "simpleType": "VPCOptions",
  "variableSetterType": "VPCOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "VPCOptions",
  "variableName": "vpcOptions",
  "variableType": "VPCOptions",
  "documentation": "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc\" target="_blank\">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.",
  "setterMethodName": "setVpcOptions",
  "setterModel": {
    "variableDeclarationType": "VPCOptions",
    "variableName": "vpcOptions",
    "variableType": "VPCOptions",
    "documentation": null,
    "simpleType": "VPCOptions",
    "variableSetterType": "VPCOptions"
  }
}
Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html). This is a convenience that creates an instance of the `CognitoOptions` avoiding the need to create one manually via `CognitoOptions.Builder`. When the `Consumer` completes, `cognitoOptions(CognitoOptions)` is called immediately and its result is passed to the `CognitoOptions` instance.

```java
public void cognitoOptions(Consumer<CognitoOptions> cognitoOptions) {
    // ... (method implementation)
}
```

The `cognitoOptions` method accepts a `Consumer` that will call methods on the `CognitoOptions.Builder`, creating an instance of `CognitoOptions`.

```java
CognitoOptions cognitoOptions = new CognitoOptions.Builder()
    .addUserPool(...)
    .addIdentityPool(...)
    .build();
```

This method allows method calls to be chained together.

```java
public CognitoOptions cognitoOptions(CognitoOptions cognitoOptions) {
    // ... (method implementation)
    return this;
}
```

The `cognitoOptions` method returns a reference to this object so that method calls can be chained together.

```java
CognitoOptions.Builder builder = CognitoOptions.builder()
    .addUserPool(...)
    .addIdentityPool(...)
    .build();
```

This method returns a reference to the object so that method calls can be chained together.

```java
public CognitoOptions.Builder cognitoOptionsBuilder() {
    return new CognitoOptions.Builder();
}
```

This method returns a reference to the object so that method calls can be chained together.

```java
public void addCognitoOptions(Consumer<CognitoOptions> cognitoOptions) {
    // ... (method implementation)
}
```

This method adds Cognito options to the Kibana authentication configuration.

```java
addCognitoOptions(Consumer<CognitoOptions> cognitoOptions);
```

This method adds Cognito options to the Kibana authentication configuration.

```java
addCognitoOptionsBuilder(CognitoOptions.Builder.Builder builder);
```

This method adds Cognito options builder to the Kibana authentication configuration.

```java
addCognitoOptionsBuilder(CognitoOptions.Builder builder);
```

This method adds Cognito options builder to the Kibana authentication configuration.
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CognitoOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CognitoOptions",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"敏感" : false,
"setterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>
@param
cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.

"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
Amazon Cognito Authentication for Kibana.</p>

This is a convenience that creates an instance of the Encryption At Rest Options.Builder avoiding the need to create one manually via EncryptionAtRestOptions.Builder(). When the Consumer completes, EncryptionAtRestOptions.Builder.build() is called immediately and its result is passed to EncryptionAtRestOptions(EncryptionAtRestOptions).

@deprecated

Specifies the Encryption At Rest Options.

@endpointDiscoveryId

@eventHeader

@eventPayload

@fluentEnumGetterMethodName

@fluentEnumSetterMethodName

@fluentGetterMethodName

@fluentSetterMethodName

@getterDocumentation

@getterModel

@http

@additionalMarshallingPath

@additionalUnmarshallingPath

@flattened

@greedy

@header

@isPayload

@isStreaming

@location

@marshallLocation

@marshallLocationName

@queryString

@defaultConsumerFluentSetterDocumentation

@simpleType

@variableSetterType

@xmlNameSpaceUri

@beanStyleGetterMethodName

@beanStyleSetterMethodName

@c2jName

@c2jShape

@defaultConsumerFluentSetterDocumentation

.Specifies the Encryption At Rest Options.

Specifies the Encryption At Rest Options.

Specifies the Encryption At Rest Options.

Specifies the Encryption At Rest Options.

Specifies the Encryption At Rest Options.

Specifies the Encryption At Rest Options.
"statusCode" : false,
"unmarshallLocationName" : "EncryptionAtRestOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EncryptionAtRestOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>
@param
encryptionAtRestOptions Specifies the Encryption At Rest Options.
","setterMethodName" : "setEncryptionAtRestOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : "<p>Specifies the Encryption At Rest Options.</p>",
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
"beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
"c2jName" : "NodeToNodeEncryptionOptions",
"c2jShape" : "NodeToNodeEncryptionOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>
This is a convenience that creates an instance of the {@link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via {@link NodeToNodeEncryptionOptions.Builder#build()}. When the {@link Consumer} completes, {@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to {@link #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)}.<br>
@return Returns a reference to this object so that method calls can be
chained together.\n@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)
"deprecated" : false,
"documentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@param nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@return Specifies the NodeToNodeEncryptionOptions.",
"getterModel" : {
   "returnType" : "NodeToNodeEncryptionOptions",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "NodeToNodeEncryptionOptions",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "NodeToNodeEncryptionOptions",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@param nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.",
   "returnType" : "NodeToNodeEncryptionOptions",
   "documentation" : null
},
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"xmlnsNameSpaceUri" : null
},
  "beanStyleGetterMethodName" : "getAdvancedOptions",
  "beanStyleSetterMethodName" : "setAdvancedOptions",
  "c2jName" : "AdvancedOptions",
  "c2jShape" : "AdvancedOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>
  "<p>This is a convenience that creates an instance of the [ @link Map<String,String>.Builder] avoiding the need to create one manually via [ @link Map<String,String>#builder()]. When the [ @link Consumer] completes, [ @link Map<String,String,#builder()] is called immediately and its result is passed to [ @link #advancedOptions(Map<String,String>)].
  @param advancedOptions a consumer that will call methods on [ @link Map<String,String>,Builder] and then return Returns a reference to this object so that method calls can be chained together.
  @see #advancedOptions(Map<String,String>)",
  "deprecated" : false,
  "documentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",
"fluentSetterDocumentation" : "Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.

@param advancedOptions Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.

@return Returns a reference to this object so that method calls can be chained together."

"getterDocumentation" : "Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information."

"getterModel" : {
  "returnType" : "java.util.Map<String,String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AdvancedOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AdvancedOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
    "implType" : "java.util.HashMap",
    "interfaceType" : "java.util.Map",
    "keyLocationName" : "key",
    "keyModel" : {
        "beanStyleGetterMethodName" : "getKey",
        "beanStyleSetterMethodName" : "setKey",
        "c2jName" : "key",
        "c2jShape" : "String",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}. @return Returns a reference to this object so that method calls can be chained together. @see #key(String)",
        "deprecated" : false,
        "documentation" : "",
        "endpointDiscoveryId" : false,
        "enumType" : null,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : null,
        "fluentEnumSetterMethodName" : null,
        "fluentGetterMethodName" : "key",
        "fluentSetterDocumentation" : "Sets the value of the Key property for this object.

@see #key(String)"
        "fluentSetterMethodName" : "key",
        "getterDocumentation" : "Returns the value of the Key property for this object.

@see #key(String)"
        "getterModel" : {
            "returnType" : "String",
            "documentation" : null
        },
        "http" : {
            "additionalMarshallingPath" : null,
            "additionalUnmarshallingPath" : null,
            "flattened" : false,
            "greedy" : false,
            "header" : false,
            "isPayload" : false,
            "isStreaming" : false,
            "location" : null,
            "marshallLocation" : "PAYLOAD",
            "marshallLocationName" : "key",
            "queryString" : false,
            "statusCode" : false,
            "unmarshallLocationName" : "key",
        },
    },
}
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.

setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via {link String.Builder#builder()}.

When the {link Consumer} completes, {link String.Builder#build()} is called immediately and its result is passed to {link String#builder()}. The value is a consumer that will call methods on {link String.Builder}.

@returns a reference to this object so that method calls can be chained together.

@see #value(String)

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.\n@n@param value The new value for the Value property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.\n@n@return The value of the Value property for this object.",
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "value",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "value",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.\n@n@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {

"variableDeclarationType" : "String",
"variableName" : "value",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "value",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"sensitive" : false,
"setterDocumentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p><p>@param advancedOptions Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>",
"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
"variableDeclarationType" : "java.util.Map<String,String>",
"variableName" : "advancedOptions",
"variableType" : "java.util.Map<String,String>",
"documentation" : null,
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.Map<String,String>",
"variableName" : "advancedOptions",
"variableType" : "java.util.Map<String,String>",
"documentation" : null,
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>"
}
"variableType" : "java.util.Map<String,String>",
"documentation" : "<p> Option to allow references to indices in an HTTP request body. Must be 
<code>false</code> when configuring access to individual sub-resources. By default, the value is 
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>
",
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
"beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
"c2jName" : "LogPublishingOptions",
"c2jShape" : "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\nThis is a convenience that creates an instance of the {@link Map<String,LogPublishingOption>.Builder} avoiding the need to create one manually via [@link Map<String,LogPublishingOption>#builder()].\nWhen the [@link Consumer] completes, [@link Map<String,LogPublishingOption>.Builder#build()] is called immediately and its result is passed to [@link #logPublishingOptionsAsStrings(Map<String,LogPublishingOption>)]\n@returns Returns a reference to this object so that method calls can be chained together.@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)"
",
"deprecated" : false,
"documentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.
\n@return Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.
\n@return Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
",
"getterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
",
"getterModel" : {
            "returnType" : "java.util.Map<String,LogPublishingOption>",
            "documentation" : null
        },
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "LogPublishingOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "LogPublishingOptions",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": true,
"mapModel": {
  "implType": "java.util.HashMap",
  "interfaceType": "java.util.Map",
  "keyLocationName": "key",
  "keyModel": {
    "beanStyleGetterMethodName": "getKeyAsString",
    "beanStyleSetterMethodName": "setKey",
    "c2jName": "key",
    "c2jShape": "LogType",
    "defaultValueFluentSetterDocumentation": "Sets the value of the Key property for this object."
  },
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object."
},
"deprecation": false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": "LogType",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "key",
"fluentEnumSetterMethodName": "key",
"fluentGetterMethodName": "keyAsString",
"fluentSetterDocumentation": "Sets the value of the Key property for this object.

@see LogType
@returns Returns a reference to this object so that method calls can be chained together.
",
"param key": "overlayNetwork"
}
method calls can be chained together.

```
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.\nIf the service returns an enum value that is not available in the current SDK version, [@link #key] will return [@link LogType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #keyAsString].\n\n\n\n@return The value of the Key property for this object.\n@see LogType",

```

```
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

```

```
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "getStatusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},

```

```
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n@see LogType",

```

```
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

```

```
\n/simple" : true,
```

"timestampFormat" : null, 
"variable" : { 
  "variableDeclarationType" : "String", 
  "variableName" : "key", 
  "variableType" : "String", 
  "documentation" : "", 
  "simpleType" : "String", 
  "variableSetterType" : "String" 
}, 
"xmlNameSpaceUri" : null 
},
"valueLocationName" : "value", 
"valueModel" : { 
  "beanStyleGetterMethodName" : "getValue", 
  "beanStyleSetterMethodName" : "setValue", 
  "c2jName" : "value", 
  "c2jShape" : "LogPublishingOption", 
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the \{ @link LogPublishingOption.Builder \} avoiding the need to create one manually via \{ @link LogPublishingOption#builder() \}. When the \{ @link Consumer \} completes, \{ @link LogPublishingOption.Builder#build() \} is called immediately and its result is passed to \{ @link #value(LogPublishingOption) \}.\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #value(LogPublishingOption)", 
  "deprecated" : false, 
  "documentation" : "", 
  "endpointDiscoveryId" : false, 
  "enumType" : null, 
  "eventHeader" : false, 
  "eventPayload" : false, 
  "fluentEnumGetterMethodName" : null, 
  "fluentEnumSetterMethodName" : null, 
  "fluentGetterMethodName" : "value", 
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object. The new value for the Value property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #value(LogPublishingOption)\n\n@Deprecated\n@see #value(LogPublishingOption)", 
  "fluentSetterMethodName" : "value", 
  "getterDocumentation" : "Returns the value of the Value property for this object.\n\n@return The value of the Value property for this object.\n\n@see #value(LogPublishingOption)\n\n@Deprecated\n@see #value(LogPublishingOption)", 
  "getterModel" : { 
    "returnType" : "LogPublishingOption", 
    "documentation" : null 
  }, 
  "http" : { 
    "additionalMarshallingPath" : null, 
    "additionalUnmarshallingPath" : null, 
    "flattened" : false, 
    "greedy" : false,
"name" : "LogPublishingOptions",
"敏感" : false,
"setterDocumentation" : "Map of LogType and LogPublishingOption, each containing options to publish a given type of Elasticsearch log.

@param logPublishingOptions Map of LogType and LogPublishingOption, each containing options to publish a given type of Elasticsearch log.

"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : null,
  "simpleType" : "Map<String,LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : "Map of LogType and LogPublishingOption, each containing options to publish a given type of Elasticsearch log.

@param logPublishingOptions Map of LogType and LogPublishingOption, each containing options to publish a given type of Elasticsearch log.

"simpleType" : "Map<String,LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "AccessPolicies" : {
    "beanStyleGetterMethodName" : "getAccessPolicies",
    "beanStyleSetterMethodName" : "setAccessPolicies",
    "c2jName" : "AccessPolicies",
    "c2jShape" : "PolicyDocument",
    "defaultConsumerFluentSetterDocumentation" : "IAM access policy as a JSON-formatted string.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #accessPolicies(String)}.\n
@param accessPolicies a consumer that will call methods on { @link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #accessPolicies(String)"

"deprecated" : false,
"documentation" : "IAM access policy as a JSON-formatted string.

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string."
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AccessPolicies",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AccessPolicies",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"sensitive" : false,
"setterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string."
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "accessPolicies",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "accessPolicies",
  "variableType" : "String",
  "documentation" : "<p> IAM access policy as a JSON-formatted string.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"AdvancedOptions" : {
  "beanStyleGetterMethodName" : "getAdvancedOptions",
  "beanStyleSetterMethodName" : "setAdvancedOptions",
  "c2jName" : "AdvancedOptions",
  "c2jShape" : "AdvancedOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>
This is a convenience that creates an instance of the { @link Map<String,String>.Builder } avoiding the need to create one manually via { @link Map<String,String>#builder() }. When the { @link Consumer } completes, { @link Map<String,String>.Builder#build() } is called immediately and its result is passed to { @link #advancedOptions(Map<String,String>) } a consumer that will call methods on { @link Map<String,String>.Builder } a reference to this object so that method calls can be chained together. @see #advancedOptions(Map<String,String>)",
  "deprecated" : false,
  "documentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "advancedOptions",
  "fluentSetterDocumentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>",
  "deprecated" : false,
  "documentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>"},
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",
"fluentSetterDocumentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>"}
Configuration Advanced Options</a> for more information.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "advancedOptions",

"getterDocumentation" : "Option to allow references to indices in an HTTP request body. Must be true when configuring access to individual sub-resources. By default, the value is false. See \nSee <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.<p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.

"getterModel" : {
  "returnType" : "java.util.Map<String,String>",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AdvancedOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AdvancedOptions",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : true,

"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    ...
"c2jShape": "String",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object."

This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #key(String)].

@see #key(String)

@deprecated false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "key",
"fluentSetterDocumentation": "Sets the value of the Key property for this object.

@see #key(String)

@returns Returns a reference to this object so that method calls can be chained together.

@param key a consumer that will call methods on

@returns Returns a reference to this object so that method calls can be chained together.

@returns Returns a reference to this object so that method calls can be chained together.

@returns Returns a reference to this object so that method calls can be chained together.

@returns Returns a reference to this object so that method calls can be chained together.

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@returns Returns a reference to this object so that method calls can be chained together.

getterDocumentation": "key",
"getterDocumentation": "key",
"getterDocumentation": "key",
"getterDocumentation": "key",
"getterDocumentation": "key",
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"getterDocumentation": "key",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "key",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "key",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.

@name The new value for the Key property for this object.",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the java.lang.String class avoiding the need to create one manually via java.lang.String#builder(). When the java.lang.Consumer completes, java.lang.String#builder.call.accept(StringBuilder) is called immediately and its result is passed to this method.

@name a consumer that will call methods on java.lang.StringBuilder.
@returns Returns a reference to this object so that the build() method is called.
@see java.lang.String#build()
"deprecated" : false,
"documentation" : null,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterMethodName" : null
}
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\n@return Returns a reference to this object so that method calls can be chained together. ",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.\n\n@return The value of the Value property for this object. ",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object. ",
"setterMethodName" : "setValue",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "value",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "value",
    "variableType" : "String",
    "documentation" : "",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>",
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"sensitive" : false,
"setterDocumentation" : "<p> Option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>

@param advancedOptions Option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.

"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
    "variableDeclarationType" : "java.util.Map<String,String>",
    "variableName" : "advancedOptions",
    "variableType" : "java.util.Map<String,String>",
    "documentation" : null,
    "simpleType" : "Map<String,String>",
    "variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.Map<String,String>",
    "variableName" : "advancedOptions",
    "variableType" : "java.util.Map<String,String>",
    "documentation" : "",
    "simpleType" : "Map<String,String>",
    "variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.Map<String,String>",
    "variableName" : "advancedOptions",
    "variableType" : "java.util.Map<String,String>",
    "documentation" : "",
    "simpleType" : "Map<String,String>",
    "variableSetterType" : "java.util.Map<String,String>"
"CognitoOptions" : {
  "beanStyleGetterMethodName" : "getCognitoOptions",
  "beanStyleSetterMethodName" : "setCognitoOptions",
  "c2jName" : "CognitoOptions",
  "c2jShape" : "CognitoOptions",
  "defaultConsumerFluentSetterDocumentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html). This is a convenience that creates an instance of the [{@link CognitoOptions.Builder}] avoiding the need to create one manually via [{@link CognitoOptions.Builder#build()}]. When the [{@link Consumer}] completes, [{@link CognitoOptions.Builder#build()}] is called immediately and its result is passed to [{@link CognitoOptions(CognitoOptions)}].

  @param cognitoOptions a consumer that will call methods on [{@link CognitoOptions.Builder}] so that method calls can be chained together.

  @return Returns a reference to this object so that method calls can be chained together.
  @see #cognitoOptions(CognitoOptions)",
  "deprecated" : false,
  "documentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html).

  @param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html).
  @return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "cognitoOptions",
  "getterDocumentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html).

  @return Options to specify the Cognito user and identity pools for Kibana authentication.
  @param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication.
  @return Returns a reference to this object so that method calls can be chained together.",
  "getterModel" : {
    "returnType" : "CognitoOptions",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CognitoOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CognitoOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>
@param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.
</p>"},
"simpleType" : "CognitoOptions",
"variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
"DomainName" : {

"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "\nThe name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).\n\nThis is a convenience that creates an instance of the \n {@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}.\n\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link domainName(String)}.
\n@see #domainName(String)"
,
"deprecated" : false,
"documentation" : "\nThe name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
\nendpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "\nThe name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
\n@return Returns a reference to this object so that method calls can be chained together.
\n@see #domainName(String)"
,
"getterDocumentation" : "\nThe name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
\nendpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "\nThe name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
\n@return Returns a reference to this object so that method calls can be chained together.
\n@see #domainName(String)"
,
"http" : 

The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>"
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"EBSOptions" : {
  "beanStyleGetterMethodName" : "getEbsOptions",
  "beanStyleSetterMethodName" : "setEbsOptions",
  "c2jName" : "EBSOptions",
  "c2jShape" : "EBSOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. </p>
This is a convenience that creates an instance of the { @link EBSOptions.Builder} avoiding the need to create one manually via { @link EBSOptions#builder()}. When the { @link Consumer} completes, { @link EBSOptions.Builder#build()} is called immediately and its result is passed to { @link #ebsOptions(EBSOptions)}. @param ebsOptions a consumer that will call methods on { @link EBSOptions.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #ebsOptions(EBSOptions)",
  "deprecated" : false,
  "documentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. </p>
@return Options to enable, disable and specify the type and size of EBS storage volumes."
 },
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "ebsOptions",
  "fluentSetterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. </p>
@return Options to enable, disable and specify the type and size of EBS storage volumes."
  @return Returns a reference to this object so that method calls can be chained together.".,
  "fluentSetterMethodName" : "ebsOptions",
  "getterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes.
@return Options to enable, disable and specify the type and size of EBS storage volumes."
 },
  "returnType" : "EBSOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD"
"marshallLocationName" : "EBSOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EBSOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. 

@param ebsOptions Options to enable, disable and specify the type and size of EBS storage volumes.

@setterMethodName" : "setEbsOptions",
"setterModel" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
  "documentation" : null,
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
  "documentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes.

"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchClusterConfig" : {
  "beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
  "beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
  "c2jName" : "ElasticsearchClusterConfig",
  "c2jShape" : "ElasticsearchClusterConfig",
  "defaultConsumerFluentSetterDocumentation" : "<p>Configuration options for an Elasticsearch domain.

Specifies the instance type and number of instances in the domain cluster. </p>
This is a convenience that creates an instance of the { @link ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via { @link
When the {@link Consumer} completes, {@link ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to the domain.

```java
ElasticsearchClusterConfig#builder()}. When the {link Consumer} completes, {link ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to {link ElasticsearchClusterConfig#elasticsearchClusterConfig(ElasticsearchClusterConfig)}.

- @param elasticsearchClusterConfig a consumer that will call methods on {link ElasticsearchClusterConfig.Builder}
- @return Returns a reference to this object so that method calls can be chained together.

- see #elasticsearchClusterConfig(ElasticsearchClusterConfig)"

"deprecated" : false,
"documentation" : "Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.

- endpointDiscoveryId" : false,
- "enumType" : null,
- "eventHeader" : false,
- "eventPayload" : false,
- "fluentEnumGetterMethodName" : null,
- "fluentEnumSetterMethodName" : null,
- "fluentGetterMethodName" : "elasticsearchClusterConfig",
- "fluentSetterDocumentation" : "Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.

- param elasticsearchClusterConfig Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.
- return Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.

- getterModel" : {
  - "returnType" : "ElasticsearchClusterConfig",
  - "documentation" : null
},
"http" : {
  - "additionalMarshallingPath" : null,
  - "additionalUnmarshallingPath" : null,
  - "flattened" : false,
  - "greedy" : false,
  - "header" : false,
  - "isPayload" : false,
  - "isStreaming" : false,
  - "location" : null,
  - "marshallLocation" : "PAYLOAD",
  - "marshallLocationName" : "ElasticsearchClusterConfig",
  - "queryString" : false,
  - "statusCode" : false,
  - "unmarshallLocationName" : "ElasticsearchClusterConfig",
  - "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.

**setterMethodName** : "setElasticsearchClusterConfig",

**setterModel** : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},

**simple** : false,

**timestampFormat** : null,

**variable** : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : "Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.",
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},

**xmlNameSpaceUri** : null,

**ElasticsearchVersion** : {
  "beanStyleGetterMethodName" : "getElasticsearchVersion",
  "beanStyleSetterMethodName" : "setElasticsearchVersion",
  "c2jName" : "ElasticsearchVersion",
  "c2jShape" : "ElasticsearchVersionString",
  "defaultConsumerFluentSetterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #elasticsearchVersion(String)}.\n\n@see #elasticsearchVersion(String)"
},

**deprecated** : false,

**documentation** : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>."
Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.

```java
@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.
@return Returns a reference to this object so that method calls can be chained together.
```

```java
@getters String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.
```

```java
@getters Model
```

```java
@http {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchVersion",
  "uri" : false
}
```

```java
@idempotencyToken" : false,
```

```java
@idempotencyToken : "false",
```

```java
@idempotencyToken = false,
```
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"sensitive" : false,

"setterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n\n\n@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.",

"setterMethodName" : "setElasticsearchVersion",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"xmlNameSpaceUri" : null
},

"EncryptionAtRestOptions" : {
  "beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
  "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
  "c2jName" : "EncryptionAtRestOptions",
  "c2jShape" : "EncryptionAtRestOptions",
  "defaultConsumerFluentSetterDocumentation" : "Specifies the Encryption At Rest Options. This is a convenience that creates an instance of the { @link EncryptionAtRestOptions.Builder} avoiding the need to create
When the `@link Consumer` completes, `@link EncryptionAtRestOptions.Builder#build()` is called immediately and its result is passed to `@link #encryptionAtRestOptions(EncryptionAtRestOptions)`. 

```java
@link EncryptionAtRestOptions#builder()

When the `@link Consumer` completes, `@link EncryptionAtRestOptions.Builder#build()` is called immediately and its result is passed to `@link #encryptionAtRestOptions(EncryptionAtRestOptions)`. 

```
"name" : "EncryptionAtRestOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>
@param encryptionAtRestOptions Specifies the Encryption At Rest Options.",
"setterMethodName" : "setEncryptionAtRestOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : "<p>Specifies the Encryption At Rest Options.</p>
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
},
"LogPublishingOptions" : {
  "beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
  "beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
  "c2jName" : "LogPublishingOptions",
  "c2jShape" : "LogPublishingOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
  This is a convenience that creates an instance of the [Map<LogType,LogPublishingOption>.Builder] avoiding the need to create one manually via [Map<LogType,LogPublishingOption>#builder()].
  When the [Consumer] completes, [Map<LogType,LogPublishingOption>.Builder#build()] is called immediately and its result is passed to [Map<LogType,LogPublishingOption>.Builder#build()]
  a consumer that will call methods on the Map<LogType,LogPublishingOption>.Builder
  Returns a reference to this object so that method calls can be chained together.<see #logPublishingOptionsWithStrings(Map<LogType,LogPublishingOption>)"
  "deprecated" : false,
  "documentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "logPublishingOptions",
  "fluentEnumSetterMethodName" : "logPublishingOptions"
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.<p>@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.<p>@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "logPublishingOptionsWithStrings",
"getterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.<p>@return Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.",
"getterModel" : {
"returnType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "LogPublishingOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LogPublishingOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
"implType" : "java.util.HashMap",
"interfaceType" : "java.util.Map",
"keyLocationName" : "key",
"keyModel" : {
"beanStyleGetterMethodName" : "getKeyAsString",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "key",
"c2jShape" : "LogType",
"defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.
This
is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #keyAsString(String)}.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #keyAsString(String)}.

```
public String keyAsString(@Consumer<String.Builder> key)
```

`key` a consumer that will call methods on {@link String.Builder}

```
public String keyAsString(@Consumer<String.Builder> key)
```

Returns a reference to this object so that method calls can be chained together.

```
public LogType key(String key)
```

```
public LogType key(String key)
```

The new value for the Key property for this object.

```
public LogType key(String key)
```

The new value for the Key property for this object.

```
public LogType key(String key)
```

If the service returns an enum value that is not available in the current SDK version, {@link #key()} will return {@link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #keyAsString()}. The raw value returned by the service is available from {@link #keyAsString()}. The raw value returned by the service is available from {@link #keyAsString()}.
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.

@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "key",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "key",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
   "beanStyleGetterMethodName" : "getValue",
   "beanStyleSetterMethodName" : "setValue",
   "c2jName" : "value",
   "c2jShape" : "LogPublishingOption",
   "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the [LogPublishingOption.Builder] avoiding the need to create one manually via [LogPublishingOption#builder()].

When the [Consumer] completes, [LogPublishingOption.Builder#build() is called immediately and its result is passed to [LogPublishingOption].

@see #value(LogPublishingOption)",
   "deprecated" : false,
   "documentation" : "",
   "endpointDiscoveryId" : false,
   "enumType" : null,
   "eventHeader" : false,
   "eventPayload" : false,
   "fluentEnumGetterMethodName" : null,
   "fluentEnumSetterMethodName" : null,
   "name" : "Value",
   "sensitive" : false,
   "setterDocumentation" : "Sets the value of the Value property for this object.

@see LogType",
"setterMethodName" : "setValue",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "value",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained together. ",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.",
"getterModel" : {
    "returnType" : "LogPublishingOption",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "value",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "value",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
    "variableDeclarationType" : "LogPublishingOption",
    "variableName" : "value",
    "variableType" : "LogPublishingOption",
    "documentation" : null,
    "simpleType" : "LogPublishingOption",
    "variableSetterType" : "LogPublishingOption"}
}
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Map.Entry<String, LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.",
  "setterMethodName" : "setLogPublishingOptionsWithStrings",
  "setterModel" : {
    "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
    "variableName" : "logPublishingOptions",
    "variableType" : "java.util.Map<String,LogPublishingOption>",
    "documentation" : null,
    "simpleType" : "java.util.Map<String,LogPublishingOption>",
    "variableSetterType" : "java.util.Map<String,LogPublishingOption>",
  },
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
    "variableName" : "logPublishingOptions",
    "variableType" : "java.util.Map<String,LogPublishingOption>",
    "documentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.",
    "setterMethodName" : "setLogPublishingOptionsWithStrings",
    "setterModel" : {
      "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
      "variableName" : "logPublishingOptions",
      "variableType" : "java.util.Map<String,LogPublishingOption>",
      "documentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.",
      "simpleType" : "java.util.Map<String,LogPublishingOption>",
      "variableSetterType" : "java.util.Map<String,LogPublishingOption>",
    },
    "simple" : false,
    "timestampFormat" : null,
    "variable" : {
      "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
      "variableName" : "logPublishingOptions",
      "variableType" : "java.util.Map<String,LogPublishingOption>",
      "documentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.",
      "simpleType" : "java.util.Map<String,LogPublishingOption>",
      "variableSetterType" : "java.util.Map<String,LogPublishingOption>",
    },
  },
  "xmlNameSpaceUri" : null,
},
"NodeToNodeEncryptionOptions" : {
  "beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
  "beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
  "c2jName" : "NodeToNodeEncryptionOptions"
"c2jShape" : "NodeToNodeEncryptionOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the
NodeToNodeEncryptionOptions.</p>
This is a convenience that creates an instance of the
{@link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via
{@link NodeToNodeEncryptionOptions.Builder#builder()}. When the
{@link Consumer} completes, the
{@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to
{@link #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)}. When the
{@link Consumer} completes, the
{@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to
{@link #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)}. When the
{@link Consumer} completes, the
{@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to
{@link #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)}.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)

"deprecated" : false,
"documentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@param nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.
{return Returns a reference to this object so that method calls can be chained together.}

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)

"getterModel" : {
"returnType" : "NodeToNodeEncryptionOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NodeToNodeEncryptionOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NodeToNodeEncryptionOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@param nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.",
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : {
"variableDeclarationType" : "NodeToNodeEncryptionOptions",
"variableName" : "nodeToNodeEncryptionOptions",
"variableType" : "NodeToNodeEncryptionOptions",
"documentation" : null,
"simpleType" : "NodeToNodeEncryptionOptions",
"variableSetterType" : "NodeToNodeEncryptionOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "NodeToNodeEncryptionOptions",
"variableName" : "nodeToNodeEncryptionOptions",
"variableType" : "NodeToNodeEncryptionOptions",
"documentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@see #snapshotOptions(SnapshotOptions)",
"simpleType" : "NodeToNodeEncryptionOptions",
"variableSetterType" : "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri" : null
},
"SnapshotOptions" : {
"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions",
"c2jShape" : "SnapshotOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Option to set to time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>

This is a convenience that creates an instance of the {@link SnapshotOptions.Builder} avoiding the need to create one manually via {@link SnapshotOptions.Builder#build()}.\n
When the {@link Consumer} completes, {@link SnapshotOptions.Builder#build()} is called immediately and its result is passed to {@link #snapshotOptions(SnapshotOptions)}.

@return Returns a reference to this object so that method calls can be chained together.\n@see #snapshotOptions(SnapshotOptions)",
"deprecated" : false,
"documentation" : "<p>Option to set to time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>
@endp",
"endpointDiscoveryId" : false,
"enumType" : null,
Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. 

```java
@Param snapshotOptions Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.

@return Returns a reference to this object so that method calls can be chained together.
```

```
Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. 

```
"variableDeclarationType" : "SnapshotOptions",
"variableName" : "snapshotOptions",
"variableType" : "SnapshotOptions",
"documentation" : null,
"simpleType" : "SnapshotOptions",
"variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : 
    "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.",
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
},
"VPCOptions" : {
  "beanStyleGetterMethodName" : "getVpcOptions",
  "beanStyleSetterMethodName" : "setVpcOptions",
  "c2jName" : "VPCOptions",
  "c2jShape" : "VPCOptions",
  "defaultConsumerFluentSetterDocumentation" : 
    "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>

This is a convenience that creates an instance of the <i>VPCOptions.Builder</i> avoiding the need to create one manually via <i>VPCOptions#builder()</i>. When the <i>Consumer</i> completes, <i>VPCOptions.Builder#build()</i> is called immediately and its result is passed to <i>VPCOptions</i>.

@see VPCOptions#builder()
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Creating a VPC in VPC Endpoints for Amazon Elasticsearch Service Domains in VPC Endpoints for Amazon Elasticsearch Service Domains.

Options to specify the subnets and security groups for VPC endpoint. For more information, see Creating a VPC in VPC Endpoints for Amazon Elasticsearch Service Domains.

Returns a reference to this object so that method calls can be chained together.

more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen). </p><p>This is a convenience that creates an instance of the @link String.Builder() avoiding the need to create one manually via @link String#builder().</p><p>When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #domainName(String)).@param domainName a consumer that will call methods on @link String.Builder@return Returns a reference to this object so that method calls can be chained together.@see #domainName(String)"
  "deprecated" : false,
  "documentation" : "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>"},
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).\n@param domainName The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).\n@return The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",

"setterMethodName" : "setDomainName",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"defaultConsumerFluentSetterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #elasticsearchVersion(String)}.

@see #elasticsearchVersion(String)"

"deprecated" : false,

"documentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n\n@see #elasticsearchVersion(String)"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n@return String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.\n",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchVersion",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ElasticsearchVersion",
"sensitive": false,

"setterDocumentation": "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.</p>
@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.",

"setterMethodName": "setElasticsearchVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "elasticsearchVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "elasticsearchVersion",
  "variableType": "String",
  "documentation": "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getElasticsearchClusterConfig",
"beanStyleSetterMethodName": "setElasticsearchClusterConfig",
"c2jName": "ElasticsearchClusterConfig",
"c2jShape": "ElasticsearchClusterConfig",
"defaultConsumerFluentSetterDocumentation": "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>

This is a convenience that creates an instance of the {@link ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via {@link ElasticsearchClusterConfig#builder()}. When the {@link Consumer} completes, {@link ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to { @link
<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.</p>

```java
@link ElasticsearchClusterConfig.Builder

@return Returns a reference to this object so that method calls can be chained together.

@see #elasticsearchClusterConfig(ElasticsearchClusterConfig)
```

```
"deprecated" : false,
"documentation" : "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"getterDocumentation" : "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>\n@return Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.
\n@return Returns a reference to this object so that method calls can be chained together.
",
"getterModel" : { 
"returnType" : "ElasticsearchClusterConfig",
"documentation" : null
},
"http" : { 
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType": "SDK_POJO",
"name": "ElasticsearchClusterConfig",
"sensitive": false,
"setterDocumentation": "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>
@param elasticsearchClusterConfig Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. ",
"setterMethodName": "setElasticsearchClusterConfig",
"setterModel": {
  "variableDeclarationType": "ElasticsearchClusterConfig",
  "variableName": "elasticsearchClusterConfig",
  "variableType": "ElasticsearchClusterConfig",
  "documentation": null,
  "simpleType": "ElasticsearchClusterConfig",
  "variableSetterType": "ElasticsearchClusterConfig"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ElasticsearchClusterConfig",
  "variableName": "elasticsearchClusterConfig",
  "variableType": "ElasticsearchClusterConfig",
  "documentation": "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>
"simpleType": "ElasticsearchClusterConfig",
  "variableSetterType": "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri": null
}, {
  "beanStyleGetterMethodName": "getEbsOptions",
  "beanStyleSetterMethodName": "setEbsOptions",
  "c2jName": "EBSOptions",
  "c2jShape": "EBSOptions",
  "defaultConsumerFluentSetterDocumentation": "<p>Options to enable, disable and specify the type and size of EBS storage volumes. </p>
This is a convenience that creates an instance of the {@link EBSOptions.Builder} avoiding the need to create one manually via {@link EBSOptions#builder()}. When the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link EBSOptions#ebsOptions(EBSOptions)},
@see #ebsOptions(EBSOptions)",
  "deprecated": false,
  "documentation": "<p>Options to enable, disable and specify the type and size of EBS storage volumes. </p>
"endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "ebsOptions"}
"fluentSetterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. 
@param ebsOptions Options to enable, disable and specify the type and size of EBS storage volumes.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "ebsOptions",
"getterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes.
@return Options to enable, disable and specify the type and size of EBS storage volumes.",
"getterModel" : {
"returnType" : "EBSOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "EBSOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EBSOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes.
@param ebsOptions Options to enable, disable and specify the type and size of EBS storage volumes.",
"setterMethodName" : "setEbsOptions",
"setterModel" : {
"variableDeclarationType" : "EBSOptions",
"variableName" : "ebsOptions",
"variableType" : "EBSOptions",
"documentation" : null,
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
  "documentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes.
  </p>",
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getAccessPolicies",
"beanStyleSetterMethodName" : "setAccessPolicies",
"c2jName" : "AccessPolicies",
"c2jShape" : "PolicyDocument",
"defaultConsumerFluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string.
</p>

This is a convenience that creates an instance of the [EBSOptions] avoiding the need to create one manually via [String.Builder].

When the [Consumer] completes, [String.Builder] is called immediately and its result is passed to [AccessPolicies(String)].

@see #accessPolicies(String)

@deprecated
"documentation" : "<p> IAM access policy as a JSON-formatted string.
</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string.
</p>

@see #accessPolicies(String)

@param accessPolicies IAM access policy as a JSON-formatted string.

return Returns a reference to this object so that method calls can be chained together.

@see #accessPolicies(String)

return Returns a reference to this object so that method calls can be chained together.

getterDocumentation" : "<p> IAM access policy as a JSON-formatted string.
</p>

return IAM access policy as a JSON-formatted string.

getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"sensitive" : false,
"setterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "accessPolicies",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "accessPolicies",
  "variableType" : "String",
  "documentation" : "<p> IAM access policy as a JSON-formatted string.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],

"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions",
"c2jShape" : "SnapshotOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>

This is a convenience that creates an instance of the {@link
SnapshotOptions.Builder] avoiding the need to create one manually via [@link
SnapshotOptions#builder()].

When the [@link Consumer] completes, [@link
SnapshotOptions.Builder#build()] is called immediately and its result is passed to [@link
#snapshotOptions(SnapshotOptions)].

@param snapshotOptions a consumer that will call methods on [@link
SnapshotOptions.Builder]

@return Returns a reference to this object so that method calls can be chained
together.

@see #snapshotOptions(SnapshotOptions)"

"deprecated" : false,
"documentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0
hours. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethodName" : "snapshotOptions",
"fluentSetterDocumentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default
value is 0 hours. </p>

@returns Option to set time, in UTC format, of the daily automated snapshot. Default value is 0
hours."

@returns Returns a reference to this object so that method calls can be chained
together.

"fluentSetterMethodName" : "snapshotOptions",
"getterDocumentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default
value is 0 hours. </p>

@returns Option to set time, in UTC format, of the daily automated snapshot. Default value is 0
hours."

"getterModel" : {
"returnType" : "SnapshotOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SnapshotOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SnapshotOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. \n@ param snapshotOptions Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.\n</p>",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. \n</p>",
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null,

"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>

This is a convenience that creates an instance of the {@link VPCOptions.Builder} avoiding the need to create one manually via {@link VPCOptions#builder()}.

When the {@link Consumer} completes, {@link VPCOptions.Builder#build()} is called immediately and its result is passed to {@link #vpcOptions(VPCOptions)}.

@returns a reference to this object so that method calls can be chained together.
@see #vpcOptions(VPCOptions)
"};
"deprecated" : false,
"documentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>

"id" : "VPCOptions",
"name" : "VPCOptions",
"nameCaseInsensitive" : "VPCOptions",
"type" : "com.amazonaws.services.elasticsearch.model.VPCOptions",
"xmlNameSpaceUri" : null,

"id" : "VPCOptions",
"name" : "VPCOptions",
"nameCaseInsensitive" : "VPCOptions",
"type" : "com.amazonaws.services.elasticsearch.model.VPCOptions",
"xmlNameSpaceUri" : null,
Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>. Returns a reference to this object so that method calls can be chained together.

*getterDocumentation*: 

```
 VitOptions
 @return Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.
```

*getterModel*: 

```
{  
"returnType": "VPCOptions",  
"documentation": null  
}
```

*http*: 

```
{  
"additionalMarshallingPath": null,  
"additionalUnmarshallingPath": null,  
"flattened": false,  
"greedy": false,  
"header": false,  
"isPayload": false,  
"isStreaming": false,  
"location": null,  
"marshallLocation": "PAYLOAD",  
"marshallLocationName": "VPCOptions",  
"queryString": false,  
"statusCode": false,  
"unmarshallLocationName": "VPCOptions",  
"uri": false  
}
```

*idempotencyToken*: false,  

*isBinary*: false,  

*jsonValue*: false,  

*list*: false,

*endpointDiscoveryId*: false,

*enumType*: null,

*eventHeader*: false,

*eventPayload*: false,

*fluentEnumGetterMethodName*: null,

*fluentEnumSetterMethodName*: null,

*fluentGetterMethodName*: "vpcOptions",

*fluentSetterDocumentation*: 

```
Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>
```

*fluentSetterMethodName*: "vpcOptions",

*fluentGetterMethodName*: "vpcOptions",

*fluentEnumGetterMethodName*: null,

*fluentEnumSetterMethodName*: null,

*eventHeader": false,

*eventPayload": false,

*fluentEnumGetterMethodName": null,

*fluentEnumSetterMethodName": null,

*fluentGetterMethodName": "vpcOptions",

*fluentSetterDocumentation": 

```
Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>
```

*fluentSetterMethodName": "vpcOptions",

*getterDocumentation": 

```
Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>
```

*getterModel": 

```
{  
"returnType": "VPCOptions",  
"documentation": null  
}
```

*http": 

```
{  
"additionalMarshallingPath": null,  
"additionalUnmarshallingPath": null,  
"flattened": false,  
"greedy": false,  
"header": false,  
"isPayload": false,  
"isStreaming": false,  
"location": null,  
"marshallLocation": "PAYLOAD",  
"marshallLocationName": "VPCOptions",  
"queryString": false,  
"statusCode": false,  
"unmarshallLocationName": "VPCOptions",  
"uri": false  
}
```

*idempotencyToken": false,  

*isBinary": false,  

*jsonValue": false,  

*list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "VPCOptions",
"sensitive": false,
"setterDocumentation": "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.",
"setterMethodName": "setVpcOptions",
"setterModel": {
  "variableDeclarationType": "VPCOptions",
  "variableName": "vpcOptions",
  "variableType": "VPCOptions",
  "documentation": null,
  "simpleType": "VPCOptions",
  "variableSetterType": "VPCOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "VPCOptions",
  "variableName": "vpcOptions",
  "variableType": "VPCOptions",
  "documentation": "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.",
  "simpleType": "VPCOptions",
  "variableSetterType": "VPCOptions"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getCognitoOptions",
"beanStyleSetterMethodName": "setCognitoOptions",
"c2jName": "CognitoOptions",
"c2jShape": "CognitoOptions",
"defaultConsumerFluentSetterDocumentation": "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n\nThis is a convenience that creates an instance of the { @link CognitoOptions.Builder} avoiding the need to create one manually via { @link CognitoOptions.Builder#builder()}.\n\nWhen the { @link Consumer} completes, { @link CognitoOptions.Builder#build()} is called immediately and its result is passed to { @link #cognitoOptions(CognitoOptions)}\n\n@param cognitoOptions a consumer that will call methods on { @link
CognitoOptions.Builder).\n@returns Returns a reference to this object so that method calls can be chained together.\n@see \n\n"deprecated" : false,
"documentation" : "\n<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see \n<a href="\nhttp://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cognitoOptions",
"fluentSetterDocumentation" : "\n<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see \n<a href="\nhttp://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n</p>
@param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see \n<a href="\nhttp://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "cognitoOptions",
"getterDocumentation" : "\n<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see \n<a href="\nhttp://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n</p>
@return Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see \n<a href="\nhttp://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.
",
"getterModel" : {
"returnType" : "CognitoOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CognitoOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CognitoOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"sensitive" : false,

"setterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>
@param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.
"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},

"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
"beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
"c2jName" : "EncryptionAtRestOptions",
"c2jShape" : "EncryptionAtRestOptions",

"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>

This is a convenience that creates an instance of the {@link EncryptionAtRestOptions.Builder} avoiding the need to create one manually via {@link EncryptionAtRestOptions.Builder#build()}. When the {@link Consumer} completes, {@link EncryptionAtRestOptions.Builder#build()} is called immediately and its result is passed to {@link EncryptionAtRestOptions(EncryptionAtRestOptions)} a consumer that will call methods on {@link EncryptionAtRestOptions.Builder}.

@returns Returns a reference to this object so that
method calls can be chained together.

@see #encryptionAtRestOptions(EncryptionAtRestOptions)

"deprecated": false,
"documentation": "<p>Specifies the Encryption At Rest Options.</p>
"endpointDiscoveryId": false,
"enumType": null,
"eventoHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "encryptionAtRestOptions",
"fluentSetterDocumentation": "<p>Specifies the Encryption At Rest Options.</p>
@param encryptionAtRestOptions Specifies the Encryption At Rest Options.
@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName": "encryptionAtRestOptions",
"getterDocumentation": "<p>Specifies the Encryption At Rest Options.</p>
@param encryptionAtRestOptions Specifies the Encryption At Rest Options.
@return Specifies the Encryption At Rest Options.

"getterModel": {
   "returnType": "EncryptionAtRestOptions",
   "documentation": null
}

"http": {
   "additionalMarshallingPath": null,
   "additionalUnmarshallingPath": null,
   "flattened": false,
   "greedy": false,
   "header": false,
   "isPayload": false,
   "isStreaming": false,
   "location": null,
   "marshallLocation": "PAYLOAD",
   "marshallLocationName": "EncryptionAtRestOptions",
   "queryString": false,
   "statusCode": false,
   "unmarshallLocationName": "EncryptionAtRestOptions",
   "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "EncryptionAtRestOptions",
"sensitive": false,
"setterDocumentation": "<p>Specifies the Encryption At Rest Options.</p>
@param encryptionAtRestOptions Specifies the Encryption At Rest Options."
"setterMethodName" : "setEncryptionAtRestOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"},
"xmlNameSpaceUri" : null},
{
"beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
"beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
"c2jName" : "NodeToNodeEncryptionOptions",
"c2jShape" : "NodeToNodeEncryptionOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>\n\nThis is a convenience that creates an instance of the {@link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via {@link NodeToNodeEncryptionOptions.Builder#builder()}.\n\nWhen the {@link Consumer} completes, {@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to {@link #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)\n\n@param nodeToNodeEncryptionOptions a consumer that will call methods on {@link NodeToNodeEncryptionOptions.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)"},
"deprecated" : false,
"documentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>\n\n<enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>\n\n@param nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.\n@return Returns a reference to this object so that method calls can be chained together.\n@see nodeToNodeEncryptionOptions",
"getterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>\n\n@return Specifies the NodeToNodeEncryptionOptions."}
"getterModel": {
  "returnType": "NodeToNodeEncryptionOptions",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "NodeToNodeEncryptionOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "NodeToNodeEncryptionOptions",
  "uri": false
},

"idempotencyToken": false,

"isBinary": false,

"jsonValue": false,

"list": false,

"listModel": null,

"map": false,

"mapModel": null,

"marshallingType": "SDK_POJO",

"name": "NodeToNodeEncryptionOptions",

"sensitive": false,

"setterDocumentation": "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@param nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.",

"setterMethodName": "setNodeToNodeEncryptionOptions",

"setterModel": {
  "variableDeclarationType": "NodeToNodeEncryptionOptions",
  "variableName": "nodeToNodeEncryptionOptions",
  "variableType": "NodeToNodeEncryptionOptions",
  "documentation": null,
  "simpleType": "NodeToNodeEncryptionOptions",
  "variableSetterType": "NodeToNodeEncryptionOptions"
},

"simple": false,

"timestampFormat": null,

"variable": {
  "variableDeclarationType": "NodeToNodeEncryptionOptions",
  "variableName": "nodeToNodeEncryptionOptions",
  "variableType": "NodeToNodeEncryptionOptions",
  "documentation": "<p>Specifies the NodeToNodeEncryptionOptions.</p>"
"simpleType" : "NodeToNodeEncryptionOptions",
"variableSetterType" : "NodeToNodeEncryptionOptions"
],
"xmlnsSpaceUri" : null
},
{
"beanStyleGetterMethodName" : "getAdvancedOptions",
"beanStyleSetterMethodName" : "setAdvancedOptions",
"c2jName" : "AdvancedOptions",
"c2jShape" : "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt; Option to allow references to indices in an HTTP request body. Must be &lt;code&gt;false&lt;/code&gt; when configuring access to individual sub-resources. By default, the value is &lt;code&gt;true&lt;/code&gt;.&lt;/p&gt;&lt;pre&gt; &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a>&lt;/pre&gt; for more information.&lt;p&gt;&lt;/p&gt;

This is a convenience that creates an instance of the { @link Map&lt;String,String&gt;.Builder} avoiding the need to create one manually via { @link Map&lt;String,String&gt;.Builder}. When the { @link Consumer} completes, { @link Map&lt;String,String&gt;.Builder#build()} is called immediately and its result is passed to { @link Map&lt;String,String&gt;.Builder#build()} a consumer that will call methods on { @link Map&lt;String,String&gt;.Builder} a reference to this object so that method calls can be chained together.&lt;p&gt;&lt;/p&gt;

"deprecated" : false,
"documentation" : "&lt;p&gt; Option to allow references to indices in an HTTP request body. Must be &lt;code&gt;false&lt;/code&gt; when configuring access to individual sub-resources. By default, the value is &lt;code&gt;true&lt;/code&gt;.&lt;/p&gt;&lt;pre&gt; &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a>&lt;/pre&gt; for more information.&lt;p&gt;&lt;/p&gt;

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",
"fluentSetterDocumentation" : "&lt;p&gt; Option to allow references to indices in an HTTP request body. Must be &lt;code&gt;false&lt;/code&gt; when configuring access to individual sub-resources. By default, the value is &lt;code&gt;true&lt;/code&gt;.&lt;/p&gt;&lt;pre&gt; &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a>&lt;/pre&gt; for more information.&lt;p&gt;&lt;/p&gt;

@returns { @link Map&lt;String,String&gt;} a reference to this object so that method calls can be chained together.&lt;/p&gt;",
"fluentSetterMethodName" : "advancedOptions",
"getterDocumentation" : "&lt;p&gt; Option to allow references to indices in an HTTP request body. Must be &lt;code&gt;false&lt;/code&gt; when configuring access to individual sub-resources. By default, the value is &lt;code&gt;true&lt;/code&gt;.&lt;/p&gt;&lt;pre&gt; &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a>&lt;/pre&gt; for more information.&lt;p&gt;&lt;/p&gt;

@returns { @link Map&lt;String,String&gt;} a reference to this object so that method calls can be chained together.&lt;/p&gt;"
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException. Must be false when configuring access to individual sub-resources. By default, the value is true. See Configuration Advanced Options for more information.

```
"getterModel" : {
    "returnType" : "java.util.Map<String,String>",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "AdvancedOptions",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "AdvancedOptions",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
    "impleType" : "java.util.HashMap",
    "interfaceType" : "java.util.Map",
    "keyLocationName" : "key",
    "keyModel" : {
        "beanStyleGetterMethodName" : "getKey",
        "beanStyleSetterMethodName" : "setKey",
        "c2jName" : "key",
        "c2jShape" : "String",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the (@link String.Builder) avoiding the need to create one manually via (@link String#builder()). When the (@link Consumer) completes, (@link String.Builder#build()) is called immediately and its result is passed to (@link String).param key a consumer that will call methods on (@link String.Builder)@return Returns a reference to this object so that method calls can be chained together.@see #key(String)",
        "deprecated" : false,
```

Advanced Options for more information. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException. Must be false when configuring access to individual sub-resources. By default, the value is true. See Configuration Advanced Options for more information.
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.\n\n@return The value of the Key property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"敏感" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object."
"setterMethodName" : "setKey",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "String",
"defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #value(String)}. @param value a consumer that will call methods on { @link String.Builder} @return Returns a reference to this object so that method calls can be chained together.@see #value(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object. The new value for the Value property for this object @return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object. @return The value of the Value property for this object.",
"getterModel" : {
"returnType" : "String"}
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "value",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "value",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
"entryType": "Map.Entry<String, String>",
"templateType": "java.util.Map<String,String>"
},
"marshallingType": "MAP",
"name": "AdvancedOptions",
"sensitive": false,
"setterDocumentation": "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>
@param advancedOptions Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information. ",
"setterMethodName": "setAdvancedOptions",
"setterModel": {
  "variableDeclarationType": "java.util.Map<String,String>",
  "variableName": "advancedOptions",
  "variableType": "java.util.Map<String,String>",
  "documentation": null,
  "simpleType": "Map<String,String>",
  "variableSetterType": "java.util.Map<String,String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.Map<String,String>",
  "variableName": "advancedOptions",
  "variableType": "java.util.Map<String,String>",
  "documentation": "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p> ",
  "simpleType": "Map<String,String>",
  "variableSetterType": "java.util.Map<String,String>"
},
"xmlNameSpaceUri": null
],
"beanStyleGetterMethodName": "getLogPublishingOptionsAsStrings",
"beanStyleSetterMethodName": "setLogPublishingOptionsWithStrings",
"c2jName": "LogPublishingOptions",
"c2jShape": "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Map of <code>LogType</code> and
<code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log. This is a convenience that creates an instance of the <code>@link Map&lt;String,LogPublishingOption&gt;</code>.Builder avoiding the need to create one manually via <code>@link Map&lt;String,LogPublishingOption&gt;#builder()</code>. When the <code>@link Consumer</code> completes, <code>@link Map&lt;String,LogPublishingOption&gt;#build()</code> is called immediately and its result is passed to <code>@link LogPublishingOptionsAsStrings(Map&lt;String,LogPublishingOption&gt;)</code>. Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@end_param LogPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@return Returns a reference to this object so that method calls can be chained together.

@see #logPublishingOptionsWithStrings(Map&lt;String,LogPublishingOption&gt;)",

"endpointDiscoveryId" : false,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@param logPublishingOptions a consumer that will call methods on <code>Map&lt;String,LogPublishingOption&gt;#builder()</code>.

@return Returns a reference to this object so that method calls can be chained together.

@see #logPublishingOptionsWithStrings(Map&lt;String,LogPublishingOption&gt;)",

"endpointDiscoveryId" : false,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@param logPublishingOptions a consumer that will call methods on <code>Map&lt;String,LogPublishingOption&gt;#builder()</code>.

@return Returns a reference to this object so that method calls can be chained together.

@see #logPublishingOptionsWithStrings(Map&lt;String,LogPublishingOption&gt;)",

"documentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@return Returns a reference to this object so that method calls can be chained together.

@see #logPublishingOptionsWithStrings(Map&lt;String,LogPublishingOption&gt;)",

"endpointDiscoveryId" : false,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@param logPublishingOptions a consumer that will call methods on <code>Map&lt;String,LogPublishingOption&gt;#builder()</code>.

@return Returns a reference to this object so that method calls can be chained together.

@see #logPublishingOptionsWithStrings(Map&lt;String,LogPublishingOption&gt;)",

"endpointDiscoveryId" : false,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@param logPublishingOptions a consumer that will call methods on <code>Map&lt;String,LogPublishingOption&gt;#builder()</code>.

@return Returns a reference to this object so that method calls can be chained together.

@see #logPublishingOptionsWithStrings(Map&lt;String,LogPublishingOption&gt;)",

"endpointDiscoveryId" : false,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@param logPublishingOptions a consumer that will call methods on <code>Map&lt;String,LogPublishingOption&gt;#builder()</code>.

@return Returns a reference to this object so that method calls can be chained together.

@see #logPublishingOptionsWithStrings(Map&lt;String,LogPublishingOption&gt;)",

"endpointDiscoveryId" : false,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

@param logPublishingOptions a consumer that will call methods on <code>Map&lt;String,LogPublishingOption&gt;#builder()</code>.

@return Returns a reference to this object so that method calls can be chained together.

@see #logPublishingOptionsWithStrings(Map&lt;String,LogPublishingOption&gt;)",

"endpointDiscoveryId" : false,
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKeyAsString",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "LogType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #keyAsString(String)}.

@see #key(String)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : "LogType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "key",
  "fluentEnumSetterMethodName" : "key",
  "fluentGetterMethodName" : "keyAsString",
  "fluentSetterDocumentation" : "Sets the value of the Key property for this object. The new value for the Key property for this object.

@see LogType

@return Returns a reference to this object so that method calls can be chained together.

@see LogType",
  "fluentSetterMethodName" : "key",
  "getterDocumentation" : "Returns the value of the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, { @link #key} will return { @link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link #keyAsString}."

@see LogType",
  "getterMethodName" : "key",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
  }
}
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "key",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "key",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"sensitive": false,
"setterDocumentation": "Sets the value of the Key property for this object.\n
@param key The new value for the Key property for this object.\n@see LogType",
"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "c2jName": "value"}
"c2jShape" : "LogPublishingOption",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the {@link LogPublishingOption.Builder} avoiding the need to create one manually via {@link LogPublishingOption#builder()}. When the {@link Consumer} completes, {@link LogPublishingOption.Builder#build()} is called immediately and its result is passed to {@link LogPublishingOption)value(LogPublishingOption)}. Returns a reference to this object so that method calls can be chained together.
@see #value(LogPublishingOption),
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object. When the Consumer completes, {@link LogPublishingOption.Builder#build()} is called immediately and its result is passed to {@link LogPublishingOption)value(LogPublishingOption)}. Returns a reference to this object so that method calls can be chained together.
@see #value(LogPublishingOption),
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object. The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained together.
",
"getterMethodName" : { "returnType" : "LogPublishingOption", "documentation" : null },
"idempotencyToken" : false, "isBinary" : false, "jsonValue" : false, "list" : false, "listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"sensitive" : false,

"setterDocumentation" : "Sets the value of the Value property for this object.
@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
    "variableDeclarationType" : "LogPublishingOption",
    "variableName" : "value",
    "variableType" : "LogPublishingOption",
    "documentation" : null,
    "simpleType" : "LogPublishingOption",
    "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "LogPublishingOption",
    "variableName" : "value",
    "variableType" : "LogPublishingOption",
    "documentation" : null,
    "simpleType" : "LogPublishingOption",
    "variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"sensitive" : false,

"setterDocumentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log."
"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
    "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
    "variableName" : "logPublishingOptions",
    "variableType" : "java.util.Map<String,LogPublishingOption>",
    "documentation" : null,
    "simpleType" : "Map<String,LogPublishingOption>",
    "variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
    "variableName" : "logPublishingOptions",
    "variableType" : "java.util.Map<String,LogPublishingOption>",
    "documentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>",
    "simpleType" : "Map<String,LogPublishingOption>",
    "variableSetterType" : "java.util.Map<String,LogPublishingOption>",
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : [ "DomainName" ],
"shapeName" : "CreateElasticsearchDomainRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
    "variableDeclarationType" : "CreateElasticsearchDomainRequest",
    "variableName" : "createElasticsearchDomainRequest",
    "variableType" : "CreateElasticsearchDomainRequest",
    "documentation" : null,
    "simpleType" : "CreateElasticsearchDomainRequest",
    "variableSetterType" : "CreateElasticsearchDomainRequest",
},
"wrapper" : false,
"CreateElasticsearchDomainResponse" : {
    "c2jName" : "CreateElasticsearchDomainResponse",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "<p>The result of a <code>CreateElasticsearchDomain</code> operation. Contains the status of the newly created Elasticsearch domain.</p>",
    "endpointDiscovery" : null,
    "enums" : null,
    "event" : false,
    "eventStream" : false,
    "explicitEventPayloadMember" : null,
    "hasHeaderMember" : false,
    "hasPayloadMember" : false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [
    {
        "beanStyleGetterMethodName": "getDomainStatus",
        "beanStyleSetterMethodName": "setDomainStatus",
        "c2jName": "DomainStatus",
        "c2jShape": "ElasticsearchDomainStatus",
        "defaultConsumerFluentSetterDocumentation": "The status of the newly created Elasticsearch domain.

This is a convenience that creates an instance of the {link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via {link ElasticsearchDomainStatus#builder()}. When the {link Consumer} completes, {link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {link ElasticsearchDomainStatus.ElasticsearchDomainStatus}.param domainStatus a consumer that will call methods on {link ElasticsearchDomainStatus.Builder#build()}.

@see #domainStatus(ElasticsearchDomainStatus)",
        "deprecated": false,
        "documentation": "The status of the newly created Elasticsearch domain.

When the {link Consumer} completes, {link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {link ElasticsearchDomainStatus}.

@see #domainStatus(ElasticsearchDomainStatus)",
        "endpointDiscoveryId": false,
        "enumType": null,
        "eventHeader": false,
        "eventPayload": false,
        "fluentEnumGetterMethodName": null,
        "fluentEnumSetterMethodName": null,
        "fluentGetterMethodName": "domainStatus",
        "fluentSetterDocumentation": "The status of the newly created Elasticsearch domain. 

When the {link Consumer} completes, {link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {link ElasticsearchDomainStatus}.param domainStatus a consumer that will call methods on {link ElasticsearchDomainStatus.Builder#build()}.

@see #domainStatus(ElasticsearchDomainStatus)",
        "fluentSetterMethodName": "domainStatus",
        "getterDocumentation": "The status of the newly created Elasticsearch domain.

When the {link Consumer} completes, {link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {link ElasticsearchDomainStatus}.param domainStatus a consumer that will call methods on {link ElasticsearchDomainStatus.Builder#build()}.

@see #domainStatus(ElasticsearchDomainStatus)",
        "getterModel": {
            "returnType": "ElasticsearchDomainStatus",
            "documentation": null
        },
        "http": {
            "additionalMarshallingPath": null,
            "additionalUnmarshallingPath": null,
            "flattened": false,
            "greedy": false,
            "header": false,
            "isPayload": false,
            "isStreaming": false,
            "location": null,
            "marshallLocation": "PAYLOAD",
            "marshallLocationName": "DomainStatus",
            "queryString": false,
            "statusCode": false,
            "statusCodeMember": false,
            "hasStreamingMember": false,
            "httpStatusCode": null,
            "marshaller": null,
            "members": []
        }
    }
]
"unmarshallLocationName" : "DomainStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"sensitive" : false,
"setterDocumentation" : "<p>The status of the newly created Elasticsearch domain. </p>
@param

domainStatus The status of the newly created Elasticsearch domain."
,
"setterMethodName" : "setDomainStatus",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "The status of the newly created Elasticsearch domain."
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
"DomainStatus" : {
  "beanStyleGetterMethodName" : "getDomainStatus",
  "beanStyleSetterMethodName" : "setDomainStatus",
  "c2jName" : "DomainStatus",
  "c2jShape" : "ElasticsearchDomainStatus",
  "defaultConsumerFluentSetterDocumentation" : "The status of the newly created Elasticsearch domain."
}
},

This is a convenience that creates an instance of the {@link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via {@link ElasticsearchDomainStatus#builder()}. When the {@link Consumer} completes, {@link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to

{@link ElasticsearchDomainStatus.Builder} a consumer that will call methods on

{@link ElasticsearchDomainStatus.Builder} Returns a reference to this object so that method calls can be
chained together.

@see #domainStatus(ElasticsearchDomainStatus)

"deprecated" : false,
"documentation" : "<p>The status of the newly created Elasticsearch domain. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "<p>The status of the newly created Elasticsearch domain. </p>
@param domainStatus The status of the newly created Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainStatus",
"getterDocumentation" : "<p>The status of the newly created Elasticsearch domain. </p>
@return The status of the newly created Elasticsearch domain.",
"getterModel" : {
"returnType" : "ElasticsearchDomainStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"sensitive" : false,
"setterDocumentation" : "<p>The status of the newly created Elasticsearch domain. </p>
@param domainStatus The status of the newly created Elasticsearch domain.",
"setterModel" : {
"returnType" : "ElasticsearchDomainStatus",
"documentation" : null
}}
"setterMethodName" : "setDomainStatus",
"setterModel" : {
    "variableDeclarationType" : "ElasticsearchDomainStatus",
    "variableName" : "domainStatus",
    "variableType" : "ElasticsearchDomainStatus",
    "documentation" : null,
    "simpleType" : "ElasticsearchDomainStatus",
    "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "ElasticsearchDomainStatus",
    "variableName" : "domainStatus",
    "variableType" : "ElasticsearchDomainStatus",
    "documentation" : "The status of the newly created Elasticsearch domain."
},
"xmlNameSpaceUri" : null
],
"nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getDomainStatus",
    "beanStyleSetterMethodName" : "setDomainStatus",
    "c2jName" : "DomainStatus",
    "c2jShape" : "ElasticsearchDomainStatus",
    "defaultConsumerFluentSetterDocumentation" : "The status of the newly created Elasticsearch domain.
This is a convenience that creates an instance of the {@link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via {@link ElasticsearchDomainStatus#builder()}. When the {@link Consumer} completes, {@link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {@link #domainStatus(ElasticsearchDomainStatus)}.
@param domainStatus a consumer that will call methods on {@link ElasticsearchDomainStatus.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #domainStatus(ElasticsearchDomainStatus)"
},
"deprecated" : false,
"documentation" : "The status of the newly created Elasticsearch domain.
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "The status of the newly created Elasticsearch domain.
When the {@link Consumer} completes, {@link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {@link #domainStatus(ElasticsearchDomainStatus)}.
@param domainStatus a consumer that will call methods on {@link ElasticsearchDomainStatus.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #domainStatus(ElasticsearchDomainStatus)",
"deprecated" : false,
of the newly created Elasticsearch domain."

"getterModel" : {
  "returnType" : "ElasticsearchDomainStatus",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainStatus",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"name" : "DomainStatus",

"setterDocumentation" : "<p>The status of the newly created Elasticsearch domain. </p>@param
domainStatus The status of the newly created Elasticsearch domain.",

"setterMethodName" : "setDomainStatus",

"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus"}
"documentation": "The status of the newly created Elasticsearch domain. \</p>\",  
"simpleType": "ElasticsearchDomainStatus",  
"variableSetterType": "ElasticsearchDomainStatus" 
},  
"xmlNameSpaceUri": null  
},  
"requestSignerAware": false,  
"requestSignerClassFqcn": null,  
"required": null,  
"shapeName": "CreateElasticsearchDomainResponse",  
"simpleMethod": false,  
"unmarshaller": {  
"flattened": false,  
"resultWrapper": null  
},  
"variable": {  
"variableDeclarationType": "CreateElasticsearchDomainResponse",  
"variableName": "createElasticsearchDomainResponse",  
"variableType": "CreateElasticsearchDomainResponse",  
"documentation": null,  
"simpleType": "CreateElasticsearchDomainResponse",  
"variableSetterType": "CreateElasticsearchDomainResponse" 
},  
"wrapper": false  
},  
"DeleteElasticsearchDomainRequest": {  
"c2jName": "DeleteElasticsearchDomainRequest",  
"customization": {  
"artificialResultWrapper": null,  
"skipGeneratingMarshaller": false,  
"skipGeneratingModelClass": false,  
"skipGeneratingUnmarshaller": false,  
"staxTargetDepthOffset": 0  
},  
"deprecated": false,  
"documentation": "Container for the parameters to the <code>DeleteElasticsearchDomain</code> operation. Specifies the name of the Elasticsearch domain that you want to delete. \</p>\",  
"endpointDiscovery": null,  
"enums": null,  
"errorCode": null,  
"event": false,  
"eventStream": false,  
"explicitEventPayloadMember": null,  
"hasHeaderMember": false,  
"hasPayloadMember": false,  
"hasStatusCodeMember": false,  
"hasStreamingMember": false,  
"httpStatusCode": null,
"marshaller": {},
"action": "DeleteElasticsearchDomain",
"locationName": null,
"requestUri": "/2015-01-01/es/domain/{DomainName}",
"target": null,
"verb": "DELETE",
"xmlNameSpaceUri": null
},
"members": [ {
"beanStyleGetterMethodName": "getDomainName",
"beanStyleSetterMethodName": "setDomainName",
"c2jName": "DomainName",
"c2jShape": "DomainName",
"defaultConsumerFluentSetterDocumentation": "<p>The name of the Elasticsearch domain that you want to permanently delete.</p><p>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.<br>
@param domainName a consumer that will call methods on {@link String.Builder}<br>
@return Returns a reference to this object so that method calls can be chained together.<br>
@see #domainName(String)"
,
"deprecated": false,
"documentation": "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"flattened": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "domainName",
"fluentSetterDocumentation": "<p>The name of the Elasticsearch domain that you want to permanently delete.</p><p>The name of the Elasticsearch domain that you want to permanently delete.\n@return The name of the Elasticsearch domain that you want to permanently delete.\n@see #domainName(String)</p",
"getterDocumentation": "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@return The name of the Elasticsearch domain that you want to permanently delete.
"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": "uri",
"marshallLocation": "PATH"
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@param domainName The name of the Elasticsearch domain that you want to permanently delete."
,"setterMethodName" : "setDomainName",
"setterModel" : {
  
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
"simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
,"membersAsMap" : {
  "DomainName" : {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.<p>When the {@link Consumer} completes, [...]

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String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.
@param domainName a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)

"deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@param domainName The name of the Elasticsearch domain that you want to permanently delete.
@return The name of the Elasticsearch domain that you want to permanently delete."
"getterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@return The name of the Elasticsearch domain that you want to permanently delete."
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
The name of the Elasticsearch domain that you want to permanently delete.

@param domainName The name of the Elasticsearch domain that you want to permanently delete.

"setterMethodName" : "setDomainName",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : "The name of the Elasticsearch domain that you want to permanently delete.",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}

"nonStreamingMembers" : [
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "The name of the Elasticsearch domain that you want to permanently delete."
]

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.

@param domainName a consumer that will call methods on {@link String.Builder}.

@return Returns a reference to this object so that method calls can be chained together.

@see #domainName(String)

"deprecated" : false,
"documentation" : "The name of the Elasticsearch domain that you want to permanently delete.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "The name of the Elasticsearch domain that you want to permanently delete.

@param domainName The name of the Elasticsearch domain that you want to permanently delete.

@return Returns a reference to this object so that method calls can be chained together.

@see #domainName(String)
"fluentSetterMethodName" : "domainName",
"getterDocumentation": "The name of the Elasticsearch domain that you want to permanently delete.",

"getterModel": {
  "returnType": "String",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "uri",
  "marshallLocation": "PATH",
  "marshallLocationName": "DomainName",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "DomainName",
  "uri": true
},

"idempotencyToken": false,

"isBinary": false,

"jsonValue": false,

"list": false,

"listModel": null,

"map": false,

"mapModel": null,

"marshallingType": "STRING",

"name": "DomainName",

"setterDocumentation": "The name of the Elasticsearch domain that you want to permanently delete.",

"setterMethodName": "setDomainName",

"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},

"simple": true,

"timestampFormat": null,

"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
}
"variableType" : "String",
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "DeleteElasticsearchDomainRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "DeleteElasticsearchDomainRequest",
  "variableName" : "deleteElasticsearchDomainRequest",
  "variableType" : "DeleteElasticsearchDomainRequest",
  "documentation" : null,
  "simpleType" : "DeleteElasticsearchDomainRequest",
  "variableSetterType" : "DeleteElasticsearchDomainRequest"
},
"wrapper" : false
},
"DeleteElasticsearchDomainResponse" : {
  "c2jName" : "DeleteElasticsearchDomainResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>The result of a <code>DeleteElasticsearchDomain</code> request. Contains the status of the pending deletion, or no status if the domain and all of its resources have been deleted.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "marshaller" : null,
  "members" : [ 

"beanStyleGetterMethodName" : "getDomainStatus",
"beanStyleSetterMethodName" : "setDomainStatus",
"c2jName" : "DomainStatus",
"c2jShape" : "ElasticsearchDomainStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
This is a convenience that creates an instance of the {@link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via {@link ElasticsearchDomainStatus#builder()}. When the {@link Consumer} completes, {@link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {@link #domainStatus(ElasticsearchDomainStatus)}. @param domainStatus a consumer that will call methods on {@link ElasticsearchDomainStatus.Builder}@n@return Returns a reference to this object so that method calls can be chained together.@n@see #domainStatus(ElasticsearchDomainStatus)",
"deprecated" : false,
"documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
@param domainStatus The status of the Elasticsearch domain being deleted.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainStatus",
"getterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
@return The status of the Elasticsearch domain being deleted.",
"getterModel" : {
"returnType" : "ElasticsearchDomainStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"sensitive" : false,
"setterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
@param domainStatus The status of the Elasticsearch domain being deleted.",
"setterMethodName" : "setDomainStatus",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The status of the Elasticsearch domain being deleted.
"deprecated" : false,
"documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
@param domainStatus The status of the Elasticsearch domain being deleted.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainStatus",
"getterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
@return The status of the Elasticsearch domain being deleted."
getterModel" : {
  "returnType" : "ElasticsearchDomainStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainStatus",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"sensitive" : false,
"setterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
@param domainStatus The status of the Elasticsearch domain being deleted.
setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus"}
"documentation" : null,
"simpleType" : "ElasticsearchDomainStatus",
"variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ElasticsearchDomainStatus",
"variableName" : "domainStatus",
"variableType" : "ElasticsearchDomainStatus",
"documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
"simpleType" : "ElasticsearchDomainStatus",
"variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ { 
"beanStyleGetterMethodName" : "getDomainStatus",
"beanStyleSetterMethodName" : "setDomainStatus",
"c2jName" : "DomainStatus",
"c2jShape" : "ElasticsearchDomainStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.
This is a convenience that creates an instance of the {@link ElasticsearchDomainStatus.Builder}
avoiding the need to create one manually via {@link ElasticsearchDomainStatus.Builder#builder()}. When the
{@link Consumer} completes, the consumer that will call methods on
{@link ElasticsearchDomainStatus.Builder}@return Returns a reference to this object so that method
calls can be chained together.
@return @see #domainStatus(ElasticsearchDomainStatus)",
"deprecated" : false,
"documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
"param" @return Returns a reference to this object so that method
calls can be chained together.
"getters" : [ 
"fluentSetterMethodName" : "domainStatus",
"getterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
"returnType" : "ElasticsearchDomainStatus",
"documentation" : null
]},
"http": {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainStatus",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
" sensitive" : false,
"setterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
@param domainStatus
The status of the Elasticsearch domain being deleted.",
"setterMethodName" : "setDomainStatus",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The status of the Elasticsearch domain being deleted.</p>",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DeleteElasticsearchDomainResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "DeleteElasticsearchDomainResponse",
  "variableName" : "deleteElasticsearchDomainResponse",
  "variableType" : "DeleteElasticsearchDomainResponse",
  "documentation" : null,
  "simpleType" : "DeleteElasticsearchDomainResponse",
  "variableSetterType" : "DeleteElasticsearchDomainResponse"
},
"wrapper" : false
},
"DeleteElasticsearchServiceRoleRequest" : {
  "c2jName" : "DeleteElasticsearchServiceRoleRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : null,
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : {
    "action" : "DeleteElasticsearchServiceRole",
    "locationName" : null,
    "requestUri" : "/2015-01-01/es/role",
    "target" : null,
    "verb" : "DELETE"
"xmlns:NameSpaceUri" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
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"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DeleteElasticsearchServiceRoleRequest",
"simpleMethod" : true,
"unmarshaller" : null,
"variable" : {
"variableDeclarationType" : "DeleteElasticsearchServiceRoleRequest",
"variableName" : "deleteElasticsearchServiceRoleRequest",
"variableType" : "DeleteElasticsearchServiceRoleRequest",
"documentation" : null,
"simpleType" : "DeleteElasticsearchServiceRoleRequest",
"variableSetterType" : "DeleteElasticsearchServiceRoleRequest"
},
"wrapper" : false
},
"DeleteElasticsearchServiceRoleResponse" : {
"c2jName" : "DeleteElasticsearchServiceRoleResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : null,
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DeleteElasticsearchServiceRoleResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "DeleteElasticsearchServiceRoleResponse",
  "variableName" : "deleteElasticsearchServiceRoleResponse",
  "variableType" : "DeleteElasticsearchServiceRoleResponse",
  "documentation" : null,
  "simpleType" : "DeleteElasticsearchServiceRoleResponse",
  "variableSetterType" : "DeleteElasticsearchServiceRoleResponse"
},
"wrapper" : false
},
"DeploymentStatus" : {
  "c2jName" : "DeploymentStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscovery" : null,
  "enums" : [{
    "name" : "PENDING_UPDATE",
    "value" : "PENDING_UPDATE"
  }, {
    "name" : "IN_PROGRESS",
    "value" : "IN_PROGRESS"
  }, {
    "name" : "COMPLETED",
    "value" : "COMPLETED"
  }, {
    "name" : "NOT_ELIGIBLE",
    "value" : "NOT_ELIGIBLE"
  }, {
    "name" : "ELIGIBLE",
    "value" : "ELIGIBLE"
  }],
  "errorCode" : null,
  "event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
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"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DeploymentStatus",
"simpleMethod" : false,
"unmarshaller" : { 
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : { 
  "variableDeclarationType" : "DeploymentStatus",
  "variableName" : "deploymentStatus",
  "variableType" : "DeploymentStatus",
  "documentation" : null,
  "simpleType" : "DeploymentStatus",
  "variableSetterType" : "DeploymentStatus"
},
"wrapper" : false
},
"DescribeElasticsearchDomainConfigRequest" : { 
  "c2jName" : "DescribeElasticsearchDomainConfigRequest",
  "customization" : { 
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Container for the parameters to the <code>DescribeElasticsearchDomainConfig</code> operation. Specifies the domain name for which you want configuration information.",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
  "action" : "DescribeElasticsearchDomainConfig",
  "locationName" : null,
  "requestUri" : "/2015-01-01/es/domain/{DomainName}/config",
  "target" : null,
  "verb" : "GET",
  "xmlNameSpaceUri" : null
},
"members" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "The Elasticsearch domain that you want to get information about.
This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to
create one manually via { @link String#builder() }.\nWhen the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to
{@link #domainName(String)}.\n\n@see #domainName(String)"
} ],
"setterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
@param domainName The Elasticsearch domain that you want to get information about.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch domain that you want to get information about.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}],
"membersAsMap" : {
  "DomainName" : {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
  }
}];
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The Elasticsearch domain that you want to get information about.&lt;/p&gt;&lt;\n\nThis is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()].&lt;\n\nWhen the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [domainName(String)].&lt;\n\n@return Returns a reference to this object so that method calls can be chained together.&lt;\n\n@see #domainName(String)",
"deprecated" : false,
"documentation" : "&lt;p&gt;The Elasticsearch domain that you want to get information about.&lt;/p&gt;",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "&lt;p&gt;The Elasticsearch domain that you want to get information about.&lt;/p&gt;&lt;\n\n@return Returns a reference to this object so that method calls can be chained together.&lt;\n\n@see #domainName(String)",
"getDocumentation" : "&lt;p&gt;The Elasticsearch domain that you want to get information about.&lt;/p&gt;&lt;\n\n@return The Elasticsearch domain that you want to get information about.&lt;/p&gt;&lt;\n\n\n@getterDocumentation" : "&lt;p&gt;The Elasticsearch domain that you want to get information about.&lt;/p&gt;&lt;\n\n\n@getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
@param domainName The Elasticsearch domain that you want to get information about.",
"setterMethodName" : "setDomainName",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
endpointDiscoveryId" : false,
"enumType" : null,
"eventIdHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.\n\n@param domainName a consumer that will call methods on {@link String.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #domainName(String)";
"deprecated" : false,
"documentation" : "<p>The Elasticsearch domain that you want to get information about.</p>";
"endpointDiscoveryId" : false,
"enumType" : null,
"eventIdHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
@param domainName The Elasticsearch domain that you want to get information about.
@return
Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
@return
The Elasticsearch domain that you want to get information about.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
@param domainName The Elasticsearch domain that you want to get information about.
@return
The Elasticsearch domain that you want to get information about.",
"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},

"domainName" : "domainName"
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "The Elasticsearch domain that you want to get information about.\</p>"
},
"xmlnsSpaceUri": null},
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "DomainName" ],
"shapeName": "DescribeElasticsearchDomainConfigRequest",
"simpleMethod": false,
"unmarshaller": null,
"wrapper": false,

"DescribeElasticsearchDomainConfigResponse": {
  "c2jName": "DescribeElasticsearchDomainConfigResponse",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "The result of a <code>DescribeElasticsearchDomainConfig</code> request. Contains the configuration information of the requested domain.\</p>"",
  "endpointDiscovery": null,
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "DomainConfig",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "DomainConfig",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "DomainConfig",
"sensitive": false,
"setterDocumentation": "<p>The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.</p>
@param domainConfig The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request."
,"setterMethodName": "setDomainConfig",
"setterModel": {
  "variableDeclarationType": "ElasticsearchDomainConfig",
  "variableName": "domainConfig",
  "variableType": "ElasticsearchDomainConfig",
  "documentation": null,
  "simpleType": "ElasticsearchDomainConfig",
  "variableSetterType": "ElasticsearchDomainConfig"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ElasticsearchDomainConfig",
  "variableName": "domainConfig",
  "variableType": "ElasticsearchDomainConfig",
  "documentation": "<p>The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.</p>"
}"
,"xmlNameSpaceUri": null
}
,"membersAsMap": {
  "DomainConfig": {
    "beanStyleGetterMethodName": "getDomainConfig",
    "beanStyleSetterMethodName": "setDomainConfig",
    "c2jName": "DomainConfig",
    "c2jShape": "ElasticsearchDomainConfig"
  }
}
"defaultConsumerFluentSetterDocumentation" : "<p>The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.</p>

This is a convenience that creates an instance of the {@link ElasticsearchDomainConfig.Builder} avoiding the need to create one manually via {@link ElasticsearchDomainConfig#builder()}. When the {@link Consumer} completes, {@link ElasticsearchDomainConfig.Builder#build()} is called immediately and its result is passed to {@link DomainConfig(ElasticsearchDomainConfig)}.<br/>

@param domainConfig a consumer that will call methods on {@link ElasticsearchDomainConfig.Builder}<br/>

@return Returns a reference to this object so that method calls can be chained together.<br/>

@see #domainConfig(ElasticsearchDomainConfig)",

"deprecated" : false,

"documentation" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.",

"endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "domainConfig",

"fluentSetterDocumentation" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.

@param domainConfig The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.

@return Returns a reference to this object so that method calls can be chained together.

@see #domainConfig(ElasticsearchDomainConfig)",

"fluentSetterMethodName" : "domainConfig",

"getterDocumentation" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.

@return The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.

@see #domainConfig(ElasticsearchDomainConfig)",

"getterModel" : {
  "returnType" : "ElasticsearchDomainConfig",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainConfig",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainConfig",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainConfig",
"sensitive" : false,
"setterDocumentation" : "\<p\>The configuration information of the domain requested in the \<code\>DescribeElasticsearchDomainConfig\<code\> request.\</p\>\n@\param\ domainConfig The configuration information of the domain requested in the \<code\>DescribeElasticsearchDomainConfig\<code\> request.\</p\>\nsetterMethodName" : "setDomainConfig",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchDomainConfig",
"variableName" : "domainConfig",
"variableType" : "ElasticsearchDomainConfig",
"documentation" : null,
"simpleType" : "ElasticsearchDomainConfig",
"variableSetterType" : "ElasticsearchDomainConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ElasticsearchDomainConfig",
"variableName" : "domainConfig",
"variableType" : "ElasticsearchDomainConfig",
"documentation" : "\<p\>The configuration information of the domain requested in the \<code\>DescribeElasticsearchDomainConfig\<code\> request.\</p\>",
"simpleType" : "ElasticsearchDomainConfig",
"variableSetterType" : "ElasticsearchDomainConfig"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainConfig",
"beanStyleSetterMethodName" : "setDomainConfig",
"c2jName" : "DomainConfig",
"c2jShape" : "ElasticsearchDomainConfig",
"defaultConsumerFluentSetterDocumentation" : "\<p\>The configuration information of the domain requested in the \<code\>DescribeElasticsearchDomainConfig\<code\> request.\</p\>\n\nThis is a convenience that creates an instance of the { @link ElasticsearchDomainConfig.Builder} avoiding the need to create one manually via { @link ElasticsearchDomainConfig#builder()}. When the { @link Consumer} completes, { @link ElasticsearchDomainConfig.Builder#build()} is called immediately and its result is passed to { @link domainConfig(ElasticsearchDomainConfig)}\n@\param\ domainConfig a consumer that will call methods on { @link ElasticsearchDomainConfig.Builder}\n@\return\ Returns a reference to this object so that method calls can be chained together.\n@see \#domainConfig(ElasticsearchDomainConfig)",
"deprecated" : false,
"documentation" : "<p>The configuration information of the domain requested in the 
<code>DescribeElasticsearchDomainConfig</code> request.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainConfig",
"fluentSetterDocumentation" : "<p>The configuration information of the domain requested in the 
<code>DescribeElasticsearchDomainConfig</code> request.</p>
@param domainConfig The configuration information of the domain requested in the 
<code>DescribeElasticsearchDomainConfig</code> request.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainConfig",
"getterDocumentation" : "<p>The configuration information of the domain requested in the 
<code>DescribeElasticsearchDomainConfig</code> request.</p>
@return The configuration information of the domain requested in the 
<code>DescribeElasticsearchDomainConfig</code> request.

@returns The configuration information of the domain requested in the 
<code>DescribeElasticsearchDomainConfig</code> request."

"getterModel" : {
"returnType" : "ElasticsearchDomainConfig",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainConfig",
"sensitive" : false,
"setterDocumentation" : "<p>The configuration information of the domain requested in the
"setterMethodName" : "setDomainConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainConfig",
  "variableName" : "domainConfig",
  "variableType" : "ElasticsearchDomainConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainConfig",
  "variableSetterType" : "ElasticsearchDomainConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainConfig",
  "variableName" : "domainConfig",
  "variableType" : "ElasticsearchDomainConfig",
  "documentation" : "The configuration information of the domain requested in the \<code>DescribeElasticsearchDomainConfig\</code> request."
}
};

"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainConfig" ],
"shapeName" : "DescribeElasticsearchDomainConfigResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "DescribeElasticsearchDomainConfigResponse",
  "variableName" : "describeElasticsearchDomainConfigResponse",
  "variableType" : "DescribeElasticsearchDomainConfigResponse",
  "documentation" : null,
  "simpleType" : "DescribeElasticsearchDomainConfigResponse",
  "variableSetterType" : "DescribeElasticsearchDomainConfigResponse"
},
"wrapper" : false
};

"DescribeElasticsearchDomainRequest" : {
  "c2jName" : "DescribeElasticsearchDomainRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Container for the parameters to the
<code><a>DescribeElasticsearchDomain</a></code> operation.</p>
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
"action" : "DescribeElasticsearchDomain",
"locationName" : null,
"requestUri" : "/2015-01-01/es/domain/{DomainName}"
},
"members" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain for which you want
information.</p>
This is a convenience that creates an instance of the {
@link String.Builder} avoiding the need to
create one manually via {
@link String#builder()}. When the {
@link Consumer} completes, {
@link String.Builder#build()} is called immediately and its result is passed to {
@link #domainName(String)}. Returns a reference to this
object so that method calls can be chained together. 
@see #domainName(String)
"deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain for which you want
information.</p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain for which you want
information.</p>
@param domainName The name of the Elasticsearch domain for which you want
information.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>

@return The name of the Elasticsearch domain for which you want information.

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>

@<param domainName The name of the Elasticsearch domain for which you want information."

"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}],
"membersAsMap" : {
"DomainName" : {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultValueConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #domainName(String)].
@param domainName a consumer that will call methods on [@link String.Builder] @return Returns a reference to this object so that method calls can be chained together. @see #domainName(String)",
"deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
@param domainName The name of the Elasticsearch domain for which you want information.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location": "uri",
"marshallLocation": "PATH",
"marshallLocationName": "DomainName",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "DomainName",
"uri": true
],
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "DomainName",
"敏感": false,
"setterDocumentation": "<p>The name of the Elasticsearch domain for which you want information.</p>
@param domainName The name of the Elasticsearch domain for which you want information."
,"setterMethodName": "setDomainName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "<p>The name of the Elasticsearch domain for which you want information.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
}
],
"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultConsumerFluentSetterDocumentation": "<p>The name of the Elasticsearch domain for which you want information.</p>"
  }
]
This is a convenience that creates an instance of the @link String.Builder avoiding the need to create one manually via @link#builder().
When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #domainName(String).

@returns a reference to this object so that method calls can be chained together.

@see #domainName(String)"}

"deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
@param domainName The name of the Elasticsearch domain for which you want information.
@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
@return The name of the Elasticsearch domain for which you want information.
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
}

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
@param domainName The name of the Elasticsearch domain for which you want information.",
"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "DescribeElasticsearchDomainRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
"variableDeclarationType" : "DescribeElasticsearchDomainRequest",
"variableName" : "describeElasticsearchDomainRequest",
"variableType" : "DescribeElasticsearchDomainRequest",
"documentation" : null,
"simpleType" : "DescribeElasticsearchDomainRequest",
"variableSetterType" : "DescribeElasticsearchDomainRequest"
},
"wrapper" : false
},
"DescribeElasticsearchDomainResponse" : {
"c2jName" : "DescribeElasticsearchDomainResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0,
],
"deprecated" : false,
"documentation" : "\p> The result of a <code>DescribeElasticsearchDomain</code> request. Contains the status of the domain specified in the request. </p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [

"beanStyleGetterMethodName" : "getDomainStatus",
"beanStyleSetterMethodName" : "setDomainStatus",
"c2jName" : "DomainStatus",
"c2jShape" : "ElasticsearchDomainStatus",
"defaultConsumerFluentSetterDocumentation" : "\p> The current status of the Elasticsearch domain.  
This is a convenience that creates an instance of the {@link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via {@link ElasticsearchDomainStatus#builder()}.\n\nWhen the {@link Consumer} completes, the ElasticsearchDomainStatus.Builder#build()) is called immediately and its result is passed to the ElasticsearchDomainStatus a consumer that will call methods on the ElasticsearchDomainStatus.Builder\n\n@see #domainStatus(ElasticsearchDomainStatus)\n
@returns Returns a reference to this object so that method calls can be chained together.\n\n@param domainStatus The current status of the Elasticsearch domain.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n"
"deprecated" : false,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "\p> The current status of the Elasticsearch domain.\n\n\n@returns Returns a reference to this object so that method calls can be chained together.\n"
"fluentSetterMethodName" : "domainStatus",
"getterDocumentation" : "\p> The current status of the Elasticsearch domain.\n\n\n@returns The current status of the Elasticsearch domain.\n"
"getterModel" : {
"returnType" : "ElasticsearchDomainStatus",
"documentation" : null
};
"http": {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainStatus",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"simple" : false,
"setterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>
@param domainStatus The current status of the Elasticsearch domain.",
"setterMethodName" : "setDomainStatus",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The current status of the Elasticsearch domain.</p>",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
"membersAsMap": {
    "DomainStatus": {
        "beanStyleGetterMethodName": "getDomainStatus",
        "beanStyleSetterMethodName": "setDomainStatus",
        "c2jName": "DomainStatus",
        "c2jShape": "ElasticsearchDomainStatus",
        "defaultConsumerFluentSetterDocumentation": "<p>The current status of the Elasticsearch domain.</p>\n\nThis is a convenience that creates an instance of the {@link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via {@link ElasticsearchDomainStatus#builder()}.\n\nWhen the {@link Consumer} completes, {@link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {@link ElasticsearchDomainStatus.Builder#domainStatus(ElasticsearchDomainStatus)} a consumer that will call methods on {@link ElasticsearchDomainStatus.Builder}.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #domainStatus(ElasticsearchDomainStatus)",
        "deprecated": false,
        "documentation": "The current status of the Elasticsearch domain.",
        "endpointDiscoveryId": false,
        "enumType": null,
        "eventHeader": false,
        "eventPayload": false,
        "fluentEnumGetterMethodName": null,
        "fluentEnumSetterMethodName": null,
        "fluentGetterMethodName": "domainStatus",
        "fluentSetterDocumentation": "<p>The current status of the Elasticsearch domain.</p>\n\n@return The current status of the Elasticsearch domain.",
        "fluentSetterMethodName": "domainStatus",
        "getterDocumentation": "The current status of the Elasticsearch domain.",
        "getterModel": {
            "returnType": "ElasticsearchDomainStatus",
            "documentation": null
        },
        "http": {
            "additionalMarshallingPath": null,
            "additionalUnmarshallingPath": null,
            "flattened": false,
            "greedy": false,
            "header": false,
            "isPayload": false,
            "isStreaming": false,
            "location": null,
            "marshallLocation": "PAYLOAD",
            "marshallLocationName": "DomainStatus",
            "queryString": false,
            "statusCode": false,
            "unmarshallLocationName": "DomainStatus",
            "uri": false
        }
    }
}
The current status of the Elasticsearch domain.

@see #domainStatus(ElasticsearchDomainStatus)
The current status of the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@model

http

@model

idempotencyToken

isBinary

isPayload

isStreaming

location

marshallLocation

marshallLocationName

queryString

statusCode

unmarshallLocationName

uri

idempotencyToken

isBinary

jsonValue

list

listModel

map

mapModel

marshallingType

name

sensitive

setterDocumentation

setterMethodName

setterModel
Container for the parameters to the `DescribeElasticsearchDomains` operation. By default, the API returns the status of all Elasticsearch domains.

```

```

The Elasticsearch domains for which you want information.

```

```

This is a convenience that creates an instance of the `List<String>.Builder` avoiding the need to create one manually via `List<String>#builder()`. When the `Consumer` completes, `List.Builder#build()` is called immediately and its result is passed to `domainNames(List<String>)`.

```

```

Attempts
to modify the collection returned by this method will result in an UnsupportedOperationException.

\[\text{return}\] The Elasticsearch domains for which you want information.

```
"getterModel" : {
   "returnType" : "java.util.List<String>",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "DomainNames",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "DomainNames",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
   "implType" : "java.util.ArrayList",
   "interfaceType" : "java.util.List",
   "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "c2jShape" : "DomainName",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via {String#builder()}\nWhen the {Consumer} completes, {String.Builder#build()} is called immediately and its result is passed to {String#member(String)}\n@see String.Builder\n@link String.Builder#build \n\nmember a consumer that will call methods on {String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)"
   },
   "deprecated" : false,
   "documentation" : "",
   "endpointDiscoveryId" : false,
   "enumType" : null,
   "eventHeader" : false,
   "eventPayload" : false,
   "fluentEnumGetterMethodName" : null,
   "fluentEnumSetterMethodName" : null,
```
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object."

"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "Member",

"setterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together."

"setterMethodName" : "setMember",

"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "member",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
}.
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainNames",
"sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch domains for which you want information.</p><@param domainNames The Elasticsearch domains for which you want information."
,"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>The Elasticsearch domains for which you want information.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"xmlnsNameSpaceUri" : null
},
"membersAsMap" : {
"DomainNames" : {
"beanStyleGetterMethodName" : "getDomainNames",
"beanStyleSetterMethodName" : "setDomainNames",
"c2jName" : "DomainNames",
"c2jShape" : "DomainNameList",
"defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch domains for which you want information.</p>
This is a convenience that creates an instance of the {link List<String>#builder()} avoiding the need to create one manually via {link List<String>#builder()}. When the {link Consumer} completes, {link List<String>.Builder#build()} is called immediately and its result is passed to {link #domainNames(List<String>)}. @param domainNames a consumer that will call methods on {link List<String>.Builder} \n@return Returns a reference to this object so that method calls can be chained together.\n}"@see #domainNames(List<String>)",
"deprecated" : false,
"documentation" : "<p>The Elasticsearch domains for which you want information.</p>
@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainNames",
"fluentSetterDocumentation" : "<p>The Elasticsearch domains for which you want information.</p>
@param domainNames The Elasticsearch domains for which you want information.
@return Returns a reference to this object so that method calls can be chained together.
"@see #domainNames",
"fluentSetterMethodName" : "domainNames",
"getterDocumentation" : "<p>The Elasticsearch domains for which you want information.</p>
<para>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</para>
@param domainNames The Elasticsearch domains for which you want information.
@return The Elasticsearch domains for which you want information.
"@see #domainNames",
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainNames",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainNames",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}.\n@param member a consumer that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
}
,"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"sensitive": false,
"setterDocumentation": "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."
,"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": 
  "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String"
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainNames",
"sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch domains for which you want information.</p>\n@param domainNames The Elasticsearch domains for which you want information.",
"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>The Elasticsearch domains for which you want information.</p>
  @param domainNames a consumer that will call methods on <code>List<String>.Builder</code>
  @return Returns a reference to this object so that method calls can be chained together.
  @see #domainNames(List<String>)",
  "deprecated" : false,
  "documentation" : "<p>The Elasticsearch domains for which you want information.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "domainNames",
"fluentSetterDocumentation": "<p>The Elasticsearch domains for which you want information.</p>
@param domainNames The Elasticsearch domains for which you want information.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "domainNames",
"getterDocumentation": "<p>The Elasticsearch domains for which you want information.</p>
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return The Elasticsearch domains for which you want information.",
"getterModel": {
"returnType": "java.util.List<String>",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "DomainNames",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "DomainNames",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
"implType": "java.util.ArrayList",
"interfaceType": "java.util.List",
"listMemberModel": {
"beanStyleGetterMethodName": "getMember",
"beanStyleSetterMethodName": "setMember",
"c2jName": "member",
"c2jShape": "DomainName",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link#builder()].\nWhen the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #member(String)]\n"},
member a consumer that will call methods on \{@link String.Builder\}:
\n@returns Returns a reference to this object so that method calls can be chained together.
@see #member(String)

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.
@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.

"getterModel" : {
 "returnType" : "String",
"documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new
value for the Member property for this object.

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"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>
}
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "DomainNames",
"sensitive": false,
"setterDocumentation": "<p>The Elasticsearch domains for which you want information.</p>
@param domainNames The Elasticsearch domains for which you want information."",
"setterMethodName": "setDomainNames",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "domainNames",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>
}"}
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.List<String>",
"variableName": "domainNames",
"variableType": "java.util.List<String>",
"documentation": "The Elasticsearch domains for which you want information.",
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
}]
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": ["DomainNames"],
"shapeName": "DescribeElasticsearchDomainsRequest",
"simpleMethod": false,
"unmarshaller": null,
"variable": {
"variableDeclarationType": "DescribeElasticsearchDomainsRequest",
"variableName": "describeElasticsearchDomainsRequest",
"variableType": "DescribeElasticsearchDomainsRequest",
"documentation": null,
"simpleType": "DescribeElasticsearchDomainsRequest",
"variableSetterType": "DescribeElasticsearchDomainsRequest"
},
"wrapper": false

"DescribeElasticsearchDomainsResponse": {
"c2jName": "DescribeElasticsearchDomainsResponse",
"customization": {
"artificialResultWrapper": null,
"skipGeneratingMarshaller": false,
"skipGeneratingModelClass": false,
"skipGeneratingUnmarshaller": false,
"staxTargetDepthOffset": 0
},
"deprecated": false,
"documentation": "The result of a <code>DescribeElasticsearchDomains</code> request. Contains the status of the specified domains or all domains owned by the account.",
"endpointDiscovery": null,
"enums": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getDomainStatusList",
  "beanStyleSetterMethodName" : "setDomainStatusList",
  "c2jName" : "DomainStatusList",
  "c2jShape" : "ElasticsearchDomainStatusList",
  "defaultConsumerFluentSetterDocumentation" : "The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request. This is a convenience that creates an instance of the
{@link List<ElasticsearchDomainStatus>.Builder} avoiding the need to create one manually via
{@link List<ElasticsearchDomainStatus>#builder()}. When the {@link Consumer} completes, the
{@link List<ElasticsearchDomainStatus>.Builder#build()} is called immediately and its result is passed to
{@link #domainStatusList(List<ElasticsearchDomainStatus>)}. @param domainStatusList a consumer that will call
methods on (@link List<ElasticsearchDomainStatus>.Builder) @return Returns a reference to this object so that
method calls can be chained together.@see #domainStatusList(List<ElasticsearchDomainStatus>)",
  "deprecated" : false,
  "documentation" : "The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.
@param domainStatusList The status of the domains
requested in the <code>DescribeElasticsearchDomains</code> request.
@return Returns a reference to this object so that
method calls can be chained together.
@see #domainStatusList(List<ElasticsearchDomainStatus>)",
  "endpointDiscoveryId" : false,
  "eventType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainStatusList",
  "fluentSetterDocumentation" : "The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.
@param domainStatusList The status of the domains
requested in the <code>DescribeElasticsearchDomains</code> request.
@return Returns a reference to this object so that
method calls can be chained together.
@see #domainStatusList(List<ElasticsearchDomainStatus>)",
  "getterDocumentation" : "Attempts to modify the collection returned by
this method will result in an UnsupportedOperationError.
@see #domainStatusList(List<ElasticsearchDomainStatus>)",
  "getterModel" : {
    "returnType" : "java.util.List<ElasticsearchDomainStatus>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
  }
}]}
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainStatusList",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainStatusList",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ElasticsearchDomainStatus",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.  
This is a convenience that creates an instance of the {link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via {link ElasticsearchDomainStatus#builder()}.  
When the {link Consumer} completes, {link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {link #member(ElasticsearchDomainStatus)}.  
@see #member(ElasticsearchDomainStatus)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.  
The new value for the Member property for this object.
@see #member(ElasticsearchDomainStatus)",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.  
@see #getMember(ElasticsearchDomainStatus)",
    "getterModel" : {
      "returnType" : "ElasticsearchDomainStatus",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null
    }
  }
}
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"isSensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "ElasticsearchDomainStatus",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "ElasticsearchDomainStatus",
"templateImplType" : "java.util.ArrayList<ElasticsearchDomainStatus>",
"templateType" : "java.util.List<ElasticsearchDomainStatus>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainStatusList",
"sensitive" : false,
"setterDocumentation" : "<p>The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.<p>
@param domainStatusList The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.",
"setterMethodName" : "setDomainStatusList",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<ElasticsearchDomainStatus>",
  "variableName" : "domainStatusList",
  "variableType" : "java.util.List<ElasticsearchDomainStatus>",
  "documentation" : null,
  "simpleType" : "List<ElasticsearchDomainStatus>",
  "variableSetterType" : "java.util.Collection<ElasticsearchDomainStatus>"
  },
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<ElasticsearchDomainStatus>",
  "variableName" : "domainStatusList",
  "variableType" : "java.util.List<ElasticsearchDomainStatus>",
  "documentation" : "<p>The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.<p>
  "variableSetterType" : "java.util.Collection<ElasticsearchDomainStatus>"
  },
"xmlNameSpaceUri" : null
}].
"membersAsMap" : {
  "DomainStatusList" : {
    "beanStyleGetterMethodName" : "getDomainStatusList",
    "beanStyleSetterMethodName" : "setDomainStatusList",
    "c2jName" : "DomainStatusList",
    "c2jShape" : "ElasticsearchDomainStatusList",
    "defaultConsumerFluentSetterDocumentation" : "<p>The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.<p>
  "defaultSetterDocumentation" : null,
  "getterDocumentation" : null,
  "isOptional" : false,
  "isResponse" : false,
  "mapModel" : null,
  "marshallingType" : "LIST",
  "name" : "DomainStatusList",
  "setterDocumentation" : null,
  "simpleType" : null,
  "variable" : {
    "variableDeclarationType" : "java.util.List<ElasticsearchDomainStatus>",
    "variableName" : "domainStatusList",
    "variableType" : "java.util.List<ElasticsearchDomainStatus>",
    "documentation" : null,
    "simpleType" : "List<ElasticsearchDomainStatus>",
    "variableSetterType" : "java.util.Collection<ElasticsearchDomainStatus>"
  }
}];

This is a convenience that creates an instance of the [{ @link List<ElasticsearchDomainStatus> .Builder} avoiding the need to create one manually via { @link
List<ElasticsearchDomainStatus>#builder()). When the \{@link Consumer\} completes, \{@link List\} is called immediately and its result is passed to \{@link domainStatusList(List\{ElasticsearchDomainStatus\})\}. @param domainStatusList a consumer that will call methods on \{@link List\{ElasticsearchDomainStatus\}.Builder\} \n
@returns a reference to this object so that method calls can be chained together. \n
@see domainStatusList(List\{ElasticsearchDomainStatus\})".,
  "deprecated" : false,
  "documentation" : "The status of the domains requested in the \n<code>DescribeElasticsearchDomains</code> request.\</p",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainStatusList",
  "fluentSetterDocumentation" : "The status of the domains requested in the \n<code>DescribeElasticsearchDomains</code> request.\<p>\n
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\</p>\n
@returns The status of the domains requested in the \n<code>DescribeElasticsearchDomains</code> request.\".
  "getterModel" : {
    "returnType" : "java.util.List\{ElasticsearchDomainStatus\}",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "DomainStatusList",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "DomainStatusList",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ElasticsearchDomainStatus",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the ElasticsearchDomainStatus.Builder avoiding the need to create one manually via ElasticsearchDomainStatus.builder().

When the Consumer completes, ElasticsearchDomainStatus.Builder.build() is called immediately and its result is passed to ElasticsearchDomainStatus.

@see member(ElasticsearchDomainStatus)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.
    
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.
    
    "getterModel" : {
      "returnType" : "ElasticsearchDomainStatus",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : null,
      "marshallLocation" : "PAYLOAD",
      "marshallLocationName" : "member",
      "queryString" : false,
      "statusCode" : false,
      "unmarshallLocationName" : "member",
      "endpointDiscoveryId" : false,
      "enumType" : null,
      "eventHeader" : false,
      "eventPayload" : false,
      "fluentEnumGetterMethodName" : null,
      "fluentEnumSetterMethodName" : null,
      "fluentGetterMethodName" : "member",
      "fluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the ElasticsearchDomainStatus.Builder avoiding the need to create one manually via ElasticsearchDomainStatus.builder().

When the Consumer completes, ElasticsearchDomainStatus.Builder.build() is called immediately and its result is passed to ElasticsearchDomainStatus.

@see member(ElasticsearchDomainStatus)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.
    
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.
    
    "getterModel" : {
      "returnType" : "ElasticsearchDomainStatus",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : null,
      "marshallLocation" : "PAYLOAD",
      "marshallLocationName" : "member",
      "queryString" : false,
      "statusCode" : false,
      "unmarshallLocationName" : "member",
      "endpointDiscoveryId" : false,
      "enumType" : null,
      "eventHeader" : false,
      "eventPayload" : false,
      "fluentEnumGetterMethodName" : null,
      "fluentEnumSetterMethodName" : null,
      "fluentGetterMethodName" : "member",
      "fluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the ElasticsearchDomainStatus.Builder avoiding the need to create one manually via ElasticsearchDomainStatus.builder().

When the Consumer completes, ElasticsearchDomainStatus.Builder.build() is called immediately and its result is passed to ElasticsearchDomainStatus.

@see member(ElasticsearchDomainStatus)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchDomainStatus",
"variableName" : "member",
"variableType" : "ElasticsearchDomainStatus",
"documentation" : null,
"simpleType" : "ElasticsearchDomainStatus",
"variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ElasticsearchDomainStatus",
"variableName" : "member",
"variableType" : "ElasticsearchDomainStatus",
"documentation" : "",
"simpleType" : "ElasticsearchDomainStatus",
"variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "ElasticsearchDomainStatus",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "ElasticsearchDomainStatus",
"templateImplType" : "java.util.ArrayList<ElasticsearchDomainStatus>",
"templateType" : "java.util.List<ElasticsearchDomainStatus>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST"
"name": "DomainStatusList",
"sensitive": false,
"setterDocumentation": "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p>
@param domainStatusList The status of the domains
requested in the <code>DescribeElasticsearchDomains</code> request.",
"setterMethodName": "setDomainStatusList",
"setterModel": {
  "variableDeclarationType": "java.util.List<ElasticsearchDomainStatus>",
  "variableName": "domainStatusList",
  "variableType": "java.util.List<ElasticsearchDomainStatus>",
  "documentation": null,
  "simpleType": "List<ElasticsearchDomainStatus>",
  "variableSetterType": "java.util.Collection<ElasticsearchDomainStatus>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<ElasticsearchDomainStatus>",
  "variableName": "domainStatusList",
  "variableType": "java.util.List<ElasticsearchDomainStatus>",
  "documentation": "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p>",
  "simpleType": "List<ElasticsearchDomainStatus>",
  "variableSetterType": "java.util.Collection<ElasticsearchDomainStatus>"
},
"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getDomainStatusList",
    "beanStyleSetterMethodName": "setDomainStatusList",
    "c2jName": "DomainStatusList",
    "c2jShape": "ElasticsearchDomainStatusList",
    "defaultConsumerFluentSetterDocumentation": "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p>This is a convenience that creates an instance of the
{@link List<ElasticsearchDomainStatus>.Builder} avoiding the need to create one manually via{@link
List<ElasticsearchDomainStatus>#builder()}. When the {@link Consumer} completes, {@link
List<ElasticsearchDomainStatus>.Builder#build()} is called immediately and its result is passed to
{@link #domainStatusList(List<ElasticsearchDomainStatus>)}. Returns a reference to this object so that
method calls can be chained together. See #domainStatusList(List<ElasticsearchDomainStatus>)",
    "deprecated": false,
    "documentation": "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "variableSetterType": "java.util.Collection<ElasticsearchDomainStatus>"
  }
}
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatusList",
"fluentSetterDocumentation" : "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request. The status of the domains
requested in the <code>DescribeElasticsearchDomains</code> request.\n@return Returns a reference to this object
so that method calls can be chained together.",
"fluentSetterMethodName" : "domainStatusList",
"getterDocumentation" : "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.\n<p>
Attempts to modify the collection returned by
this method will result in an UnsupportedOperationException.\n@return The status of the domains requested
in the <code>DescribeElasticsearchDomains</code> request."
"getterModel" : {
  "returnType" : "java.util.List<ElasticsearchDomainStatus>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainStatusList",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainStatusList",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ElasticsearchDomainStatus",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object.\n\nThis is a convenience that creates an instance of the {
@link ElasticsearchDomainStatus.Builder
avoiding the need to create one manually via {
@link ElasticsearchDomainStatus#builder()}.\n\nWhen the {
@link Consumer} completes, {
@link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is
passed to \{ @link #member(ElasticsearchDomainStatus)\}.\n@param member a consumer that will call methods on
\{ @link ElasticsearchDomainStatus.Builder \}@return Returns a reference to this object so that method calls can be
chained together.\n@see #member(ElasticsearchDomainStatus)",

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethod underwayName" : "member",
"fluentGetterDocumentation" : "Sets the value of the Member property for this object.\n@for param member
The new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be
chained together."
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object."
"getterModel" : {
"returnType" : "ElasticsearchDomainStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation": "Sets the value of the Member property for this object.
@\n\n@param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "ElasticsearchDomainStatus",
  "variableName": "member",
  "variableType": "ElasticsearchDomainStatus",
  "documentation": null,
  "simpleType": "ElasticsearchDomainStatus",
  "variableSetterType": "ElasticsearchDomainStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ElasticsearchDomainStatus",
  "variableName": "member",
  "variableType": "ElasticsearchDomainStatus",
  "documentation": null,
  "simpleType": "ElasticsearchDomainStatus",
  "variableSetterType": "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri": null,
"memberLocationName": null,
"memberType": "ElasticsearchDomainStatus",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "ElasticsearchDomainStatus",
"templateImplType": "java.util.ArrayList<ElasticsearchDomainStatus>",
"templateType": "java.util.List<ElasticsearchDomainStatus>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "DomainStatusList",
"sensitive": false,
"setterDocumentation": "The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.
@\n\n@param domainStatusList The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.",
"setterMethodName": "setDomainStatusList",
"setterModel": {
  "variableDeclarationType": "java.util.List<ElasticsearchDomainStatus>",
  "variableName": "domainStatusList",
  "variableType": "java.util.List<ElasticsearchDomainStatus>",
  "documentation": null,
  "simpleType": "List<ElasticsearchDomainStatus>"
"variableSetterType" : "java.util.Collection<ElasticsearchDomainStatus>" },
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<ElasticsearchDomainStatus>",
  "variableName" : "domainStatusList",
  "variableType" : "java.util.List<ElasticsearchDomainStatus>",
  "documentation" : "<p>The status of the domains requested in the<br>DescribeElasticsearchDomains</p> request.</p>"},
"simpleType" : "List<ElasticsearchDomainStatus>",
"variableSetterType" : "java.util.Collection<ElasticsearchDomainStatus>"
},
"xmlNameSpaceUri" : null
]},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainStatusList" ],
"shapeName" : "DescribeElasticsearchDomainsResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "DescribeElasticsearchDomainsResponse",
  "variableName" : "describeElasticsearchDomainsResponse",
  "variableType" : "DescribeElasticsearchDomainsResponse",
  "documentation" : null,
  "simpleType" : "DescribeElasticsearchDomainsResponse",
  "variableSetterType" : "DescribeElasticsearchDomainsResponse"
},
"wrapper" : false
},
"DescribeElasticsearchInstanceTypeLimitsRequest" : {
  "c2jName" : "DescribeElasticsearchInstanceTypeLimitsRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Container for the parameters to <code>DescribeElasticsearchInstanceTypeLimits</code> operation. </p>"},
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {  
  "action" : "DescribeElasticsearchInstanceTypeLimits",
  "locationName" : null,
  "requestUri" : "/2015-01-01/es/instanceTypeLimits/{ElasticsearchVersion}/{InstanceType}",
  "target" : null,
  "verb" : "GET",
  "xmlNameSpaceUri" : null,
}

"members" : [ {  
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.<br/>
When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #domainName(String)}.

@deprecated

"documentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
This should be present only if we are querying for Elasticsearch `<a>Limits</a>` for existing domain.

```

@return DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch `<a>Limits</a>` for existing domain.

  "getterModel": {
    "returnType": "String",
    "documentation": null
  },

  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": "querystring",
    "marshallLocation": "QUERY_PARAM",
    "marshallLocationName": "domainName",
    "queryString": true,
    "statusCode": false,
    "unmarshallLocationName": "domainName",
    "uri": false
  },

  "idempotencyToken": false,
  "isBinary": false,
  "jsonValue": false,
  "list": false,
  "listModel": null,
  "map": false,
  "mapModel": null,
  "marshallingType": "STRING",
  "name": "DomainName",
  "sensitive": false,
  "setterDocumentation": "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch `<a>Limits</a>` for existing domain.</p>",

  "setterMethodName": "setDomainName",
  "setterModel": {
    "variableDeclarationType": "String",
    "variableName": "domainName",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
  },

  "simple": true,
```

```
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt;</code> for existing domain. </p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
    "beanStyleGetterMethodName" : "getInstanceTypeAsString",
    "beanStyleSetterMethodName" : "setInstanceType",
    "c2jName" : "InstanceType",
    "c2jShape" : "ESPartitionInstanceType",
    "defaultConsumerFluentSetterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt;</code> are needed. </p>
This is a convenience that creates an instance of the {
    @link String.Builder} avoiding the need to create one manually via {
    @link String#builder()}. When the {
    @link Consumer} completes, {
    @link String.Builder#build()} is called immediately and its result is passed to {
    @link #instanceTypeAsString(String)}.
@returns Returns a reference to this object so that method calls can be chained together.\n@see #instanceType(String)",
    "deprecated" : false,
    "documentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt;</code> are needed. </p>",
    "endpointDiscoveryId" : false,
    "enumType" : "ESPartitionInstanceType",
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "instanceType",
    "fluentEnumSetterMethodName" : "instanceType",
    "fluentGetterMethodName" : "instanceTypeAsString",
    "fluentSetterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt;</code> are needed. </p>
@return The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt;</code> are needed.\n@see ESPartitionInstanceType\n@returns Returns a reference to this object so that method calls can be chained together.\n@see ESPartitionInstanceType",
    "fluentSetterMethodName" : "instanceType",
    "getterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt;</code> are needed. </p>
If the service returns an enum value that is not available in the current SDK version, {\link #instanceType} will return {\link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {\link #instanceTypeAsString}.\n@returns The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt;</code> are needed.\n@see ESPartitionInstanceType",
    "getterModel" : {
        "returnType" : "String",
        "type" : "String"
    }
}
"documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "uri",
  "marshallLocation": "PATH",
  "marshallLocationName": "InstanceType",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "InstanceType",
  "uri": true
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "InstanceType",
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "instanceType",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"setterDocumentation": "<p>The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt; </code> are needed. 
@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt; </code> are needed.
@see ESPartitionInstanceType",
"setterMethodName": "setInstanceType",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "instanceType",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "instanceType",
  "variableType": "String",
  "documentation": "&lt;p&gt;The instance type for an Elasticsearch cluster for which Elasticsearch &lt;code&gt;&lt;a&gt;Limits&lt;/a&gt; &lt;/code&gt; are needed. &lt;/p&gt;",

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"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
],
"
"beanStyleGetterMethodName": "getElasticsearchVersion",
"beanStyleSetterMethodName": "setElasticsearchVersion",
"c2jName": "ElasticsearchVersion",
"c2jShape": "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation": "&lt;p&gt; Version of Elasticsearch for which &lt;code&gt;Limits&lt;/a&gt; &lt;/code&gt; are needed. &lt;/p&gt;&lt;p&gt;This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #elasticsearchVersion(String)].&lt;param elasticsearchVersion a consumer that will call methods on [link String.Builder]&lt;/param&gt;&lt;/p&gt;&lt;p&gt;returns a reference to this object so that method calls can be chained together.&lt;/p&gt;&lt;see href="#elasticsearchVersion(String)"&gt;#elasticsearchVersion(String)&lt;/see&gt;",
"deprecated": false,
"documentation": 
&lt;p&gt; Version of Elasticsearch for which &lt;code&gt;Limits&lt;/a&gt; &lt;/code&gt; are needed. &lt;/p&gt;",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "elasticsearchVersion",
"fluentSetterDocumentation": 
&lt;p&gt; Version of Elasticsearch for which &lt;code&gt;Limits&lt;/a&gt; &lt;/code&gt; are needed. &lt;/p&gt;&lt;p&gt;This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #elasticsearchVersion(String)].&lt;param elasticsearchVersion a consumer that will call methods on [link String.Builder]&lt;/param&gt;&lt;/p&gt;&lt;p&gt;returns a reference to this object so that method calls can be chained together.&lt;/p&gt;&lt;see href="#elasticsearchVersion(String)"&gt;#elasticsearchVersion(String)&lt;/see&gt;",
"fluentSetterMethodName": "elasticsearchVersion",
"getterDocumentation": 
&lt;p&gt; Version of Elasticsearch for which &lt;code&gt;Limits&lt;/a&gt; &lt;/code&gt; are needed. &lt;/p&gt;&lt;p&gt;This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #elasticsearchVersion(String)].&lt;param elasticsearchVersion a consumer that will call methods on [link String.Builder]&lt;/param&gt;&lt;/p&gt;&lt;p&gt;returns a reference to this object so that method calls can be chained together.&lt;/p&gt;&lt;see href="#elasticsearchVersion(String)"&gt;#elasticsearchVersion(String)&lt;/see&gt;",
"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": "uri",
"marshallLocation": "PATH",
"marshallLocationName": "ElasticsearchVersion",
"queryString": false,
"statusCode": false,
"unmarshalLocationName" : "ElasticsearchVersion",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "<p> Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. </p>
@param elasticsearchVersion Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. ",
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : "<p> Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} ],
"membersAsMap" : {
  "DomainName" : {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link String#builder()].\n\nWhen the [ @link Consumer] completes, [ @link String.Builder#build() ] is called immediately and its result is passed to [ @link
@param domainName a consumer that will call methods on

String.Builder

@returns Returns a reference to this object so that method calls can be chained together.

@see

domainName(String)

"deprecated" : false,

"documentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code>Limits</code> for existing domain. </p>

"endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "domainName",

"fluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code>Limits</code> for existing domain. </p>

"getterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code>Limits</code> for existing domain. </p>

"getterModel" : {

"returnType" : "String",

"documentation" : null
}

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : false,

"header" : false,

"isPayload" : false,

"isStreaming" : false,

"location" : "querystring",

"marshallLocation" : "QUERY_PARAM",

"marshallLocationName" : "domainName",

"queryString" : true,

"statusCode" : false,

"unmarshallLocationName" : "domainName",

"uri" : false

},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : ": DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain.

@<param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain.

"setterMethodName" : "setDomainName",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : "DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain.

"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchVersion" : {
    "beanStyleGetterMethodName" : "getElasticsearchVersion",
    "beanStyleSetterMethodName" : "setElasticsearchVersion",
    "c2jName" : "ElasticsearchVersion",
    "c2jShape" : "ElasticsearchVersionString",
    "defaultConsumerFluentSetterDocumentation" : "Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. 

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #elasticsearchVersion(String)}.

@param elasticsearchVersion a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.

@see #elasticsearchVersion(String)
"deprecated" : false,
"documentation" : "Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. 
"}
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p> Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. </p>
@param elasticsearchVersion Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "<p> Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. </p>
@return Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed.,
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "ElasticsearchVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchVersion",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "<p> Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. </p>
@param elasticsearchVersion Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed."
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : 
"<p> Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. </p>
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"InstanceType" : {
"beanStyleGetterMethodName" : "getInstanceTypeAsString",
"beanStyleSetterMethodName" : "setInstanceType",
"c2jName" : "InstanceType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : 
"<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>
This is a convenience that creates an instance of the
{@link String.Builder} avoiding the need to create one manually via
{@link String.Builder#builder()}. When the {@link Consumer} completes,
{@link String.Builder#build()} is called immediately and its result is passed to
{@link #instanceTypeAsString(String)}.
@param instanceType a consumer that will call methods on
{@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType
@deprecated" false,
"documentation" : 
"The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "instanceType",
"fluentEnumSetterMethodName" : "instanceType",
"fluentGetterMethodName" : "instanceTypeAsString",
"fluentSetterDocumentation" : 
"The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType" false,
"getterDocumentation" : "\p> The instance type for an Elasticsearch cluster for which Elasticsearch \p> Limits\p> are needed. \p> If the service returns an enum value that is not available in the current SDK version, \p>@link \#instanceType \p> will return \p>@link ESPartitionInstanceType\#UNKNOWN_TO_SDK_VERSION . The raw value returned by the service is available from \p>@link \#instanceTypeAsString \p>. \p>@return The instance type for an Elasticsearch cluster for which Elasticsearch \p> Limits\p> are needed. \p>@see ESPartitionInstanceType",

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "InstanceType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "InstanceType",
  "uri" : true
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "InstanceType",

"sensitive" : false,

"setterDocumentation" : "\p> The instance type for an Elasticsearch cluster for which Elasticsearch \p> Limits\p> are needed. \p> \p@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch \p> Limits\p> are needed. \p>@see ESPartitionInstanceType",

"setterMethodName" : "setInstanceType",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "InstanceType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "InstanceType",
  "uri" : true
},

"idempotencyToken" : false,
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "instanceType",
  "variableType": "String",
  "documentation": "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> Limits</code> are needed. </p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultConsumerFluentSetterDocumentation": "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain. </p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.
@param domainName a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
  "deprecated": false,
  "documentation": "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain. </p>",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "domainName",
  "fluentSetterDocumentation": "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain. </p>
This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.
@param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain.
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
  "getterDocumentation": "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain. </p>",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "domainName",
  "fluentSetterDocumentation": "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain. </p>
This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.
@param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain.
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)"}
DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch `<code><a>Limits</a></code>` for existing domain. `\n\n@param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch `<code><a>Limits</a></code>` for existing domain.`
"variableName": "domainName",
"variableType": "String",
"documentation": "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlnsNameSpaceUri": null
}]

"beanStyleGetterMethodName": "getInstanceTypeAsString",
"beanStyleSetterMethodName": "setInstanceType",
"c2jName": "InstanceType",
"c2jShape": "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation": "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>

This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n
When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #instanceTypeAsString(String)\}.\n
@param instanceType a consumer that will call methods on \{@link String.Builder\}\n
@return Returns a reference to this object so that method calls can be chained together.\n
@see #instanceType(String)",
"deprecated": false,
"documentation": "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>",
"endpointDiscoveryId": false,
"enumType": "ESPartitionInstanceType",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "instanceType",
"fluentEnumSetterMethodName": "instanceType",
"fluentGetterMethodName": "instanceTypeAsString",
"fluentSetterDocumentation": "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>

If the service returns an enum value that is not available in the current SDK version, \{@link #instanceType\} will return \{@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION\}. The raw value returned by the service is available from \{@link #instanceTypeAsString\}.\n
@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed.\n
@see ESPartitionInstanceType",
"fluentSetterMethodName": "instanceType",
"getterDocumentation": "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>

If the service returns an enum value that is not available in the current SDK version, \{@link #instanceType\} will return \{@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION\}. The raw value returned by the service is available from \{@link #instanceTypeAsString\}.\n
@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed.\n
@see ESPartitionInstanceType",
"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "InstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceType",
"uri" : true,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "InstanceType",
"sensitive" : false,
"setterDocumentation" : "<p>The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt; </code> are needed. <br/>
@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt; </code> are needed.<br/>
@see ESPartitionInstanceType",
"setterMethodName" : "setInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : "<p>The instance type for an Elasticsearch cluster for which Elasticsearch <code>&lt;a&gt;Limits&lt;/a&gt; </code> are needed. <br/>
"simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
{
"beanStyleGetterMethodName" : "getElasticsearchVersion",
"beanStyleSetterMethodName" : "setElasticsearchVersion",
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "<p> Version of Elasticsearch for which <code>a>Limits</a> </code> are needed. </p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. 

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #elasticsearchVersion(String)}. 

@see #elasticsearchVersion(String)

"deprecated" : false,
"documentation" : "<p> Version of Elasticsearch for which <code>a>Limits</a> </code> are needed. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p> Version of Elasticsearch for which <code>a>Limits</a> </code> are needed. </p>
@param elasticsearchVersion Version of Elasticsearch for which <code>a>Limits</a> </code> are needed.
@return Returns a reference to this object so that method calls can be chained together.

@see #elasticsearchVersion(String)",
"getterDocumentation" : "<p> Version of Elasticsearch for which <code>a>Limits</a> </code> are needed. </p>
@return Version of Elasticsearch for which <code>a>Limits</a> </code> are needed.

@see #elasticsearchVersion(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
} ,
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : true
} ,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue": false,
"list": false,
"listModel" : null,
"map": false,
"mapModel" : null,
"marshallingType": "STRING",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "<p> Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. 
@param elasticsearchVersion Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. 

"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "InstanceType", "ElasticsearchVersion" ],
"shapeName" : "DescribeElasticsearchInstanceTypeLimitsRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
"variableDeclarationType" : "DescribeElasticsearchInstanceTypeLimitsRequest",
"variableName" : "describeElasticsearchInstanceTypeLimitsRequest",
"variableType" : "DescribeElasticsearchInstanceTypeLimitsRequest",
"documentation" : null,
"simpleType" : "DescribeElasticsearchInstanceTypeLimitsRequest",
"variableSetterType" : "DescribeElasticsearchInstanceTypeLimitsRequest"
},
"wrapper": false,
},
"DescribeElasticsearchInstanceTypeLimitsResponse": {
  "c2jName": "DescribeElasticsearchInstanceTypeLimitsResponse",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "<p> Container for the parameters received from \(<code>DescribeElasticsearchInstanceTypeLimits</code>\) operation. </p>",
  "endpointDiscovery": null,
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": null,
  "members": [
    {"beanStyleGetterMethodName": "getLimitsByRole",
     "beanStyleSetterMethodName": "setLimitsByRole",
     "c2jName": "LimitsByRole",
     "c2jShape": "LimitsByRole",
     "defaultConsumerFluentSetterDocumentation": "Sets the value of the LimitsByRole property for this object. This is a convenience that creates an instance of the \(<\text{Map}\langle\text{String},\text{Limits}\rangle\).\text{Builder}()\) avoiding the need to create one manually via \(<\text{Map}\langle\text{String},\text{Limits}\rangle\).\text{builder}()\).\text{When the \(<\text{Consumer}\) completes, \(<\text{Map}\langle\text{String},\text{Limits}\rangle\).\text{Builder}()\) is called immediately and its result is passed to \(<\text{Map}\langle\text{String},\text{Limits}\rangle\).\text{Builder}()\).\text{return} Returns a reference to this object so that method calls can be chained together.\n@see \text{limitsByRole}Map<\text{String},\text{Limits}>\",
     "deprecated": false,
     "documentation": "",
     "enumType": null,
     "eventHeader": false,
     "eventPayload": false,
     "fluentEnumGetterMethodName": null,
     "fluentEnumSetterMethodName": null,
     "fluentGetterMethodName": "limitsByRole",
     "fluentSetterDocumentation": "Sets the value of the LimitsByRole property for this object.\n@param limitsByRole\n\text{A consumer that will call methods on \(<\text{Map}\langle\text{String},\text{Limits}\rangle\).\text{Builder}()\).\text{When the \(<\text{Consumer}\) completes, \(<\text{Map}\langle\text{String},\text{Limits}\rangle\).\text{Builder}()\) is called immediately and its result is passed to \(<\text{Map}\langle\text{String},\text{Limits}\rangle\).\text{Builder}()\)\).\text{return} Returns a reference to this object so that method calls can be chained together.\n@see \text{limitsByRole}Map<\text{String},\text{Limits}>\"",
     "endpointDiscoveryId": false,
     "enumType": null,
     "eventHeader": false,
     "eventPayload": false,
     "fluentEnumGetterMethodName": null,
     "fluentEnumSetterMethodName": null,
     "fluentGetterMethodName": "limitsByRole",
     "fluentSetterDocumentation": "Sets the value of the LimitsByRole property for this object.\n\text{A consumer that will call methods on \(<\text{Map}\langle\text{String},\text{Limits}\rangle\).\text{Builder}()\).\text{When the \(<\text{Consumer}\) completes, \(<\text{Map}\langle\text{String},\text{Limits}\rangle\).\text{Builder}()\) is called immediately and its result is passed to \(<\text{Map}\langle\text{String},\text{Limits}\rangle\).\text{Builder}()\)\).\text{return} Returns a reference to this object so that method calls can be chained together.\n@see \text{limitsByRole}Map<\text{String},\text{Limits}>\"
  }
}
limitsByRole The new value for the LimitsByRole property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "limitsByRole",
"getterDocumentation" : "Returns the value of the LimitsByRole property for this object. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

The value of the LimitsByRole property for this object.

getterModel" : {
"returnType" : "java.util.Map<String,Limits>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "LimitsByRole",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LimitsByRole",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
"implType" : "java.util.HashMap",
"interfaceType" : "java.util.Map",
"keyLocationName" : "key",
"keyModel" : {
"beanStyleGetterMethodName" : "getKey",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "key",
"c2jShape" : "InstanceRole",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}. @param key a consumer that will call methods on { @link String.Builder}.

@returns Returns a reference to this object so that method calls can be chained together.

@see #key(String)"
,"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Retrns the value of the Key property for this object.

@type The value of the Key property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setKey",
"setterModel" : {
"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
],
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {
"beanStyleGetterMethodName": "getValue",
"beanStyleSetterMethodName": "setValue",
"c2jName": "value",
"c2jShape": "Limits",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.\n
This is a convenience that creates an instance of the {@link Limits.Builder} avoiding the need to create one manually via {@link Limits.Builder#builder()}.\n
When the {@link Consumer} completes, {@link Limits.Builder#build()} is called immediately and its result is passed to {@link #value(Limits)}.\n
@see #value(Limits)",
"deprecated": false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "value",
"fluentSetterDocumentation": "Sets the value of the Value property for this object.\n
The new value for the Value property for this object.\n
@return Returns a reference to this object so that method calls can be chained together.\n",  
"fluentSetterMethodName": "value",
"getterDocumentation": "Returns the value of the Value property for this object.\n
@return The value of the Value property for this object.\n",  
"getterModel": {
"returnType": "Limits",
"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {
"beanStyleGetterMethodName": "getValue",
"beanStyleSetterMethodName": "setValue",
"c2jName": "value",
"c2jShape": "Limits",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.\n
This is a convenience that creates an instance of the {@link Limits.Builder} avoiding the need to create one manually via {@link Limits.Builder#builder()}.\n
When the {@link Consumer} completes, {@link Limits.Builder#build()} is called immediately and its result is passed to {@link #value(Limits)}.\n
@see #value(Limits)",
"deprecated": false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "value",
"fluentSetterDocumentation": "Sets the value of the Value property for this object.\n
The new value for the Value property for this object.\n
@see #value(Limits)",
"fluentSetterMethodName": "value",
"getterDocumentation": "Returns the value of the Value property for this object.\n
@see #value(Limits)",
"getterModel": {
"returnType": "Limits",
"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"},
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "value",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.
@\param value The new value for the Value property for this object."
,"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "Limits",
  "variableName" : "value",
  "variableType" : "Limits",
  "documentation" : null,
  "simpleType" : "Limits",
  "variableSetterType" : "Limits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Limits",
  "variableName" : "value",
  "variableType" : "Limits",
  "documentation" : "",
  "simpleType" : "Limits",
  "variableSetterType" : "Limits"
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitsByRole",
"fluentSetterMethodName" : "limitsByRole",
"getterDocumentation" : "Sets the value of the LimitsByRole property for this object.
@param
limitsByRole The new value for the LimitsByRole property for this object.
@return
Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
  "returnType" : "java.util.Map<String,Limits>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LimitsByRole",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LimitsByRole",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "InstanceRole",
  },
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link key(String)}.

@param key a consumer that will call methods on { @link String.Builder}.
@see #key(String)

@deprecated false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link key(String)}.

@see #key(String)
@return Returns a reference to this object so that method calls can be chained together.

@see #key(String)

@deprecated false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link key(String)}.

@see #key(String)
@return Returns a reference to this object so that method calls can be chained together.

@see #key(String)

@deprecated false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link key(String)}.

@see #key(String)
@return Returns a reference to this object so that method calls can be chained together.

@see #key(String)

@deprecated false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link key(String)}.

@see #key(String)
@return Returns a reference to this object so that method calls can be chained together.

@see #key(String)

@deprecated false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link key(String)}.

@see #key(String)
@return Returns a reference to this object so that method calls can be chained together.

@see #key(String)

@deprecated false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link key(String)}.

@see #key(String)
@return Returns a reference to this object so that method calls can be chained together.

@see #key(String)

@deprecated false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.\n@param key The new value for the Key property for this object.\n",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "Limits",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.\nThis is a convenience that creates an instance of the [@link Limits.Builder] avoiding the need to create one manually via [@link Limits#builder()].\nWhen the [@link Consumer] completes, [@link Limits.Builder#build()] is called immediately and its result is passed to [@link #value(Limits)].\n@param value a consumer that will call methods on [@link Limits.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #value(Limits)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.\n@param value The
new value for the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.

"getterModel" : {
  "returnType" : "Limits",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "value",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.

@param value The new value for the Value property for this object.

"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "Limits",
  "variableName" : "value",
  "variableType" : "Limits",
  "documentation" : null,
  "simpleType" : "Limits",
  "variableSetterType" : "Limits"
},

"simple" : false,
"timestampFormat" : null,
Variation: { 
  "variableDeclarationType": "Limits",
  "variableName": "limitsByRole",
  "variableType": "java.lang.Map<String,Limits>",
  "documentation": "Sets the value of the LimitsByRole property for this object.

@Param limitsByRole The new value for the LimitsByRole property for this object.

setterDocumentation": "Sets the value of the LimitsByRole property for this object.

setterMethodName": "setLimitsByRole",

setterModel": {
  "variableDeclarationType": "java.lang.Map<String,Limits>",
  "variableName": "limitsByRole",
  "variableType": "java.lang.Map<String,Limits>",
  "documentation": null,
  "simpleType": "Map<String,Limits>",
  "variableSetterType": "java.lang.Map<String,Limits>",
},

"simple": false,

"timestampFormat": null,

"variable": {
  "variableDeclarationType": "java.lang.Map<String,Limits>",
  "variableName": "limitsByRole",
  "variableType": "java.lang.Map<String,Limits>",
  "documentation": null,
  "simpleType": "Map<String,Limits>",
  "variableSetterType": "java.lang.Map<String,Limits>",
},

"xmlNameSpaceUri": null
}

nonStreamingMembers": [: {
  "beanStyleGetterMethodName": "getLimitsByRole",
  "beanStyleSetterMethodName": "setLimitsByRole",
  "c2jName": "LimitsByRole",
  "c2jShape": "LimitsByRole",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the LimitsByRole property for this object.

This is a convenience that creates an instance of the { @link Map<String,Limits>.Builder } avoiding the need to create one manually via { @link Map<String,Limits>#builder() }. When the { @link Consumer}
completes, \[@link Map\<String,Limits\>.Builder\#build()\] is called immediately and its result is passed to \[@link #limitsByRole(Map\<String,Limits\>)\].\n@\param limitsByRole a consumer that will call methods on \[@link Map\<String,Limits\>.Builder\]
\@return Returns a reference to this object so that method calls can be chained together.
\n@\see #limitsByRole(Map\<String,Limits\>)

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitsByRole",
"fluentSetterDocumentation" : "Sets the value of the LimitsByRole property for this object.\n\n@\param limitsByRole The new value for the LimitsByRole property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "limitsByRole",
"getterDocumentation" : "Returns the value of the LimitsByRole property for this object.\n<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n</p>\n\n@return The value of the LimitsByRole property for this object.",
"getterModel" : {
"returnType" : "java.util.Map\<String,Limits\>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "LimitsByRole",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LimitsByRole",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
"implType" : "java.util.HashMap",
"implType" : "Map\<String,Limits\>"
}
"interfaceType" : "java.util.Map",
"keyLocationName" : "key",
"keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "InstanceRole",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object. This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #key(String) }. @param key a consumer that will call methods on { @link String.Builder } @return Returns a reference to this object so that method calls can be chained together.
@see #key(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "key",
    "fluentSetterDocumentation" : "Sets the value of the Key property for this object. The new value for the Key property for this object. @param key The new value for the Key property for this object. @return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "key",
    "getterDocumentation" : "Returns the value of the Key property for this object. @return The value of the Key property for this object.",
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "key",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "key",
        "uri" : false
    }
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.
@\param key The new value for the Key property for this object.",
"setterMethodName" : "setKey",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "key",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "key",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
   "beanStyleGetterMethodName" : "getValue",
   "beanStyleSetterMethodName" : "setValue",
   "c2jName" : "value",
   "c2jShape" : "Limits",
   "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.
This is a convenience that creates an instance of the \{@link Limits.Builder\} avoiding the need to create one manually via \{@link Limits#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link Limits.Builder#build()\} is called immediately and its result is passed to \{@link \#value(Limits)\}.\n@\param value a consumer that will call methods on \{@link Limits.Builder\}\n@\return Returns a reference to this object so that method calls can be chained together.\n@see \#value(Limits)",
   "deprecated" : false,
   "documentation" : null,
   "endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.\n@returns The new value for the Value property for this object.\n\n@returns Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.\n\n@returns The value of the Value property for this object."
"getterModel" : { 
"returnType" : "Limits",
"documentation" : null 
},
"http" : { 
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false 
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.\n@returns The new value for the Value property for this object."
"setterMethodName" : "setValue",
"setterModel" : { 
"variableDeclarationType" : "Limits",
"variableName" : "value"},
"variableType" : "Limits",
"documentation" : null,
"simpleType" : "Limits",
"variableSetterType" : "Limits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Limits",
  "variableName" : "value",
  "variableType" : "Limits",
  "documentation" : "",
  "simpleType" : "Limits",
  "variableSetterType" : "Limits"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, Limits>",
"templateType" : "java.util.Map<String,Limits>"
}
,"marshallingType" : "MAP",
"name" : "LimitsByRole",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the LimitsByRole property for this object.\n\n@param limitsByRole The new value for the LimitsByRole property for this object."
,"setterMethodName" : "setLimitsByRole",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,Limits>",
  "variableName" : "limitsByRole",
  "variableType" : "java.util.Map<String,Limits>",
  "documentation" : null,
  "simpleType" : "Map<String,Limits>",
  "variableSetterType" : "java.util.Map<String,Limits>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,Limits>",
  "variableName" : "limitsByRole",
  "variableType" : "java.util.Map<String,Limits>",
  "documentation" : "",
  "simpleType" : "Map<String,Limits>",
  "variableSetterType" : "java.util.Map<String,Limits>"
},
"xmlNameSpaceUri" : null
}]
,"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DescribeElasticsearchInstanceTypeLimitsResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "DescribeElasticsearchInstanceTypeLimitsResponse",
  "variableName" : "describeElasticsearchInstanceTypeLimitsResponse",
  "variableType" : "DescribeElasticsearchInstanceTypeLimitsResponse",
  "documentation" : null,
  "simpleType" : "DescribeElasticsearchInstanceTypeLimitsResponse",
  "variableSetterType" : "DescribeElasticsearchInstanceTypeLimitsResponse",
  "wrapper" : false
},
"DescribeReservedElasticsearchInstanceOfferingsRequest" : {
  "c2jName" : "DescribeReservedElasticsearchInstanceOfferingsRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Container for parameters to
<code>DescribeReservedElasticsearchInstanceOfferings</code></p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : {
    "action" : "DescribeReservedElasticsearchInstanceOfferings",
    "locationName" : null,
    "requestUri" : "2015-01-01/es/reservedInstanceOfferings",
    "target" : null,
    "verb" : "GET",
    "xmlNameSpaceUri" : null
  }
}
"members" : [ {
    "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
    "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
    "c2jName" : "ReservedElasticsearchInstanceOfferingId",
    "c2jShape" : "GUID",
    "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.&lt;/p&gt;&lt;/n&gt;This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()].&lt;n&gt;When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #reservedElasticsearchInstanceOfferingId(String)].&lt;n&gt;&lt;param name="reservedElasticsearchInstanceOfferingId"&gt;a consumer that will call methods on [link String.Builder]&lt;n&gt;&lt;/param&gt;&lt;returns&gt;Returns a reference to this object so that method calls can be chained together.&lt;n&gt;&lt;see link #reservedElasticsearchInstanceOfferingId(String)\"",
    "deprecated" : false,
    "documentation" : "&lt;p&gt;The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.&lt;/p&gt;\",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
    "fluentSetterDocumentation" : "&lt;p&gt;The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.&lt;/p&gt;&lt;/n&gt;&lt;param name="reservedElasticsearchInstanceOfferingId"&gt;The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.&lt;n&gt;&lt;/param&gt;&lt;returns&gt;Returns a reference to this object so that method calls can be chained together.\",
    "fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
    "getterDocumentation" : "&lt;p&gt;The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.&lt;/p&gt;&lt;/n&gt;&lt;returns&gt;The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.\",
    "getterModel" : { 
        "returnType" : "String",
        "documentation" : null
    },
    "http" : { 
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : "querystring",
        "marshallLocation" : "QUERY_PARAM",
        "marshallLocationName" : "offeringId",
        "queryString" : true,
    }
}]}
"statusCode" : false,
"unmarshallLocationName" : "offeringId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceOfferingId",
"sensitive" : false,
"setterDocumentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>
@param reservedElasticsearchInstanceOfferingId
The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults",
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}. When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link
#maxResults(Integer)\n@param maxResults a consumer that will call methods on \{ @link Integer.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see #maxResults(Integer)\n   "deprecated" : false,
  "documentation" : "\n<p>Set this value to limit the number of results returned. If not specified, defaults to 100. </p>\n</p>\n   "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "maxResults",
  "fluentSetterDocumentation" : "\n<p>Set this value to limit the number of results returned. If not specified, defaults to 100. </p>\n\n</p>\n  "fluentSetterMethodName" : "maxResults",
  "getterDocumentation" : "\n<p>Set this value to limit the number of results returned. If not specified, defaults to 100. </p>\n\n</p>\n  "getterModel" : {\n    "returnType" : "Integer",
    "documentation" : null\n  },
  "http" : {\n    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "querystring",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "maxResults",
    "queryString" : true,
    "statusCode" : false,
    "unmarshallLocationName" : "maxResults",
    "uri" : false\n  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "INTEGER",
  "name" : "MaxResults"
"setterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.",

"setterMethodName" : "setMaxResults",
"setterModel" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "maxResults",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "maxResults",
    "variableType" : "Integer",
    "documentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}, {
    "beanStyleGetterMethodName" : "getNextToken",
    "beanStyleSetterMethodName" : "setNextToken",
    "c2jName" : "NextToken",
    "c2jShape" : "NextToken",
    "defaultConsumerFluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #nextToken(String) }. Returns a reference to this object so that method calls can be chained together.
@param nextToken a consumer that will call methods on { @link String.Builder }<p>@see #nextToken(String)
    "deprecated" : false,
    "documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "nextToken",
    "fluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
"
containing NextToken. It is used for pagination.

```java
@Param(nextToken)
```

It should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

```java
@Return
```

Returns a reference to this object so that method calls can be chained together.

```java

"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

```java

@Return
```

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

```java

"setterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

```java

@Return
```

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

```java

"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"`
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

Set this value to limit the number of results returned. If not specified, defaults to 100.

This is a convenience that creates an instance of the \{@link Integer.Builder\} avoiding the need to create one manually via \{@link Integer#builder()\}.

When the \{@link Consumer\} completes, \{@link Integer.Builder#build()\} is called immediately and its result is passed to \{@link #maxResults(Integer)\}.

@deprecated

Set this value to limit the number of results returned. If not specified, defaults to 100.

@see #maxResults(Integer)
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"sensitive" : false,
"setterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p><p>@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
};
"xmlNameSpaceUri" : null
},
"NextToken" : {
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "NextToken",
  "defaultConsumerFluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
This is a convenience that creates an instance of the [{@link String.Builder}] avoiding the need to create one manually via [{@link String#builder()}].
When the [{@link Consumer}] completes, [{@link String.Builder#build()}] is called immediately and its result is passed to [{@link #nextToken(String)}].
@return Returns a reference to this object so that method calls can be chained together.{@see #nextToken(String)}",
  "deprecated" : false,
  "documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "nextToken",
  "fluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "nextToken",
  "getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>@param NextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.@return Returns a reference to this object so that method calls can be chained together.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "querystring",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "nextToken",
    "queryString" : true,
"statusCode": false,
"unmarshallLocationName": "nextToken",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NextToken",
" sensitive": false,
"setterDocumentation": "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.";

"setterMethodName": "setNextToken",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "nextToken",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "nextToken",
"variableType": "String",
"documentation": "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination."
},
"complexType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"ReservedElasticsearchInstanceOfferingId": {
"beanStyleGetterMethodName": "getReservedElasticsearchInstanceOfferingId",
"beanStyleSetterMethodName": "setReservedElasticsearchInstanceOfferingId",
"c2jName": "ReservedElasticsearchInstanceOfferingId",
"c2jShape": "GUID",
"defaultConsumerFluentSetterDocumentation": "The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.";

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder()]. When the [Consumer] completes, [String.Builder#build()] is called
immediately and its result is passed to {@link #reservedElasticsearchInstanceOfferingId(String)\n@param reservedElasticsearchInstanceOfferingId a consumer that will call methods on {@link String.Builder}.intersection\n@return Returns a reference to this object so that method calls can be chained together.\n@see #reservedElasticsearchInstanceOfferingId(String)\n", "deprecated" : false,  
"documentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>",  
"endpointDiscoveryId" : false,  
"enumType" : null,  
"eventHeader" : false,  
"eventPayload" : false,  
"fluentEnumGetterMethodName" : null,  
"fluentEnumSetterMethodName" : null,  
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",  
"fluentSetterDocumentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>
@param reservedElasticsearchInstanceOfferingId The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.\n@return Returns a reference to this object so that method calls can be chained together.",  
"fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",  
"getterDocumentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>
@return The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.",  
"getterModel" : {  
"returnType" : "String",  
"documentation" : null  
},  
"http" : {  
"additionalMarshallingPath" : null,  
"additionalUnmarshallingPath" : null,  
"flattened" : false,  
"greedy" : false,  
"header" : false,  
"isPayload" : false,  
"isStreaming" : false,  
"location" : "querystring",  
"marshallLocation" : "QUERY_PARAM",  
"marshallLocationName" : "offeringId",  
"queryString" : true,  
"statusCode" : false,  
"unmarshallLocationName" : "offeringId",  
"uri" : false  
},  
"idempotencyToken" : false,  
"isBinary" : false,  
"jsonValue" : false,  
"list" : false,  
"listModel" : null,
The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.

```java
@Param reservedElasticsearchInstanceOfferingId
```

The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.

```java
@Param reservedElasticsearchInstanceOfferingId
```

The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.

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@Param reservedElasticsearchInstanceOfferingId
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The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.

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The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.

```java
@Param reservedElasticsearchInstanceOfferingId
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The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.

```java
@Param reservedElasticsearchInstanceOfferingId
```
The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.

"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "reservedElasticsearchInstanceOfferingId",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "reservedElasticsearchInstanceOfferingId",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults",
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via {@link Integer#builder()}. When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link #maxResults(Integer)].

@param maxResults a consumer that will call methods on [@link Integer.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #maxResults(Integer)"
"deprecated" : false,
"documentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>"},
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : 
"<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>

@returns Set this value to limit the number of results returned. If not specified, defaults to 100.",

"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "maxResults",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "maxResults",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "INTEGER",

"name" : "MaxResults",

"setterDocumentation" : 
"<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>

@n@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.",

"setterMethodName" : "setMaxResults",

"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {

"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link String.Builder} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link String.Builder} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}.

@param nextToken a consumer that will call methods on { @link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)",
"deprecated" : false,
"documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>

When the { @link String.Builder} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}.

@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
@return Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>

When the { @link String.Builder} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}.

@see #nextToken(String)",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
"required": null,
"shapeName": "DescribeReservedElasticsearchInstanceOfferingsRequest",
"simpleMethod": true,
"unmarshaller": null,
"variable": {
  "variableDeclarationType": "DescribeReservedElasticsearchInstanceOfferingsRequest",
  "variableName": "describeReservedElasticsearchInstanceOfferingsRequest",
  "variableType": "DescribeReservedElasticsearchInstanceOfferingsRequest",
  "documentation": null,
  "simpleType": "DescribeReservedElasticsearchInstanceOfferingsRequest",
  "variableSetterType": "DescribeReservedElasticsearchInstanceOfferingsRequest"
},
"wrapper": false
},
"DescribeReservedElasticsearchInstanceOfferingsResponse": {
  "c2jName": "DescribeReservedElasticsearchInstanceOfferingsResponse",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": ":p>Container for results from
<br>&lt;code&gt;DescribeReservedElasticsearchInstanceOfferings&lt;/code&gt;&lt;/p&gt;",
  "endpointDiscovery": null,
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": null,
  "members": [
    "beanStyleGetterMethodName": "getNextToken",
    "beanStyleSetterMethodName": "setNextToken",
    "c2jName": "NextToken",
    "c2jShape": "NextToken",
    "defaultConsumerFluentSetterDocumentation": ":p>Provides an identifier to allow retrieval of paginated results.&lt;/p&gt;&lt;\n&gt;This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()} when the {@link Consumer} completes. When the String.Builder#build() is called immediately and its result is passed to the @link #nextToken(String) method. A nextToken a consumer that will call methods on this object

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so that method calls can be chained together.  

```java
@see #nextToken(String)"
```

"deprecated" : false,  
"documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",  
"endpointDiscoveryId" : false,  
"enumType" : null,  
"eventHeader" : false,  
"eventPayload" : false,  
"fluentEnumGetterMethodName" : null,  
"fluentEnumSetterMethodName" : null,  
"fluentGetterMethodName" : "nextToken",  
"fluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param nextToken Provides an identifier to allow retrieval of paginated results. 
@return Returns a reference to this object so that method calls can be chained together. 

```
"getterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
```

```
@return Provides an identifier to allow retrieval of paginated results."
```

```
getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
```

```
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "NextToken",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "NextToken",
  "uri" : false
},
```

"idempotencyToken" : false,  
"isBinary" : false,  
"jsonValue" : false,  
"list" : false,  
"listModel" : null,  
"map" : false,  
"mapModel" : null,  
"marshallingType" : "STRING",

"name" : "NextToken",

"setterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
```

```
\n@param nextToken Provides an identifier to allow retrieval of paginated results.";"nextToken(String)";
```

"returnType" : "String",

"documentation" : null
```

"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferings",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferings",
  "c2jName" : "ReservedElasticsearchInstanceOfferings",
  "c2jShape" : "ReservedElasticsearchInstanceOfferingList",
  "defaultConsumerFluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
This is a convenience that creates an instance of the { @link List<ReservedElasticsearchInstanceOffering>.Builder} avoiding the need to create one manually via { @link List<ReservedElasticsearchInstanceOffering>#builder()}.

When the { @link Consumer} completes, { @link List<ReservedElasticsearchInstanceOffering>.Builder#build()} is called immediately and its result is passed to { @link reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)}. 

@see reservedElasticsearchInstanceOfferings
  { @return a reference to this object so that method calls can be chained together.}
  
#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
  "deprecated" : false,
  "documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferings",
  "fluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
@see reservedElasticsearchInstanceOfferings
  { @return a reference to this object so that method calls can be chained together.}
  
"fluentSetterMethodName" : "reservedElasticsearchInstanceOfferings"
"getterDocumentation" : "List of reserved Elasticsearch instance offerings. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException."

"getterModel" : {
"returnType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceOfferings",
"queryString" : false,
"statusName" : "false",
"unmarshallLocationName" : "ReservedElasticsearchInstanceOfferings",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "ReservedElasticsearchInstanceOffering",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the {ReservedElasticsearchInstanceOffering.Builder} avoiding the need to create one manually via {ReservedElasticsearchInstanceOffering#builder()}. When the {@link @EndpointDiscoveryId} completes, {ReservedElasticsearchInstanceOffering.Builder#build()} is called immediately and its result is passed to {ReservedElasticsearchInstanceOffering}. 

@see @EndpointDiscoveryId @param member a consumer that will call methods on {ReservedElasticsearchInstanceOffering.Builder} @return Returns a reference to this object so that method calls can be chained together.
"
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member

The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.",
"getterModel" : {
 "returnType" : "ReservedElasticsearchInstanceOffering",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "member",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "member",
 "uri" : false
 },
"idempotencyToken" : false,
 "isBinary" : false,
 "jsonValue" : false,
 "list" : false,
 "listModel" : null,
 "map" : false,
 "mapModel" : null,
 "marshallingType" : "SDK_POJO",
 "name" : "Member",
 "sensitive" : false,
 "setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
 "variableDeclarationType" : "ReservedElasticsearchInstanceOffering",
 "variableName" : "member",
 "variableType" : "ReservedElasticsearchInstanceOffering",
 "documentation" : null,
}
"simpleType": "ReservedElasticsearchInstanceOffering",
"variableSetterType": "ReservedElasticsearchInstanceOffering"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ReservedElasticsearchInstanceOffering",
  "variableName": "member",
  "variableType": "ReservedElasticsearchInstanceOffering",
  "documentation": "",
  "simpleType": "ReservedElasticsearchInstanceOffering",
  "variableSetterType": "ReservedElasticsearchInstanceOffering"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "ReservedElasticsearchInstanceOffering",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "ReservedElasticsearchInstanceOffering",
"templateImplType": "java.util.ArrayList<ReservedElasticsearchInstanceOffering>",
"templateType": "java.util.List<ReservedElasticsearchInstanceOffering>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "ReservedElasticsearchInstanceOfferings",
"sensitive": false,
"setterDocumentation": "<p>List of reserved Elasticsearch instance offerings</p>
@param reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings",
"setterMethodName": "setReservedElasticsearchInstanceOfferings",
"setterModel": {
  "variableDeclarationType": "java.util.List<ReservedElasticsearchInstanceOffering>",
  "variableName": "reservedElasticsearchInstanceOfferings",
  "variableType": "java.util.List<ReservedElasticsearchInstanceOffering>",
  "documentation": null,
  "simpleType": "List<ReservedElasticsearchInstanceOffering>",
  "variableSetterType": "java.util.Collection<ReservedElasticsearchInstanceOffering>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<ReservedElasticsearchInstanceOffering>",
  "variableName": "reservedElasticsearchInstanceOfferings",
  "variableType": "java.util.List<ReservedElasticsearchInstanceOffering>",
  "documentation": "<p>List of reserved Elasticsearch instance offerings</p>"
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>",
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
"NextToken" : {
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()].
When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #nextToken(String)].

@param nextToken a consumer that will call methods on [link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.

"documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "getNextToken",
"fluentEnumSetterMethodName" : "setNextToken",
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@return Provides an identifier to allow retrieval of paginated results.
"getterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"敏感" : false,
"setterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param
nextToken Provides an identifier to allow retrieval of paginated results.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ReservedElasticsearchInstanceOfferings" : {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferings",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferings",
  "C2JName" : "ReservedElasticsearchInstanceOfferings",
  "c2jShape" : "ReservedElasticsearchInstanceOfferingList",
  "defaultConsumerFluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>

This is a convenience that creates an instance of the { @link
List<ReservedElasticsearchInstanceOffering>.Builder} avoiding the need to create one manually via { @link
List<ReservedElasticsearchInstanceOffering>#builder()}.

When the { @link Consumer} completes, { @link
List<ReservedElasticsearchInstanceOffering>.Builder#build()} is called immediately and its result is passed to
{ @link #reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)}.

@param
reservedElasticsearchInstanceOfferings a consumer that will call methods on \{@link
List<ReservedElasticsearchInstanceOffering>.Builder\}@return Returns a reference to this object so that method
calls can be chained together.@see
@reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
    "deprecated" : false,
    "documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferings",
    "fluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
@param
reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings
@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "reservedElasticsearchInstanceOfferings",
    "getterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
<p>
Attempts to modify
the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return List of
reserved Elasticsearch instance offerings",
    "getterModel" : {
        "returnType" : "java.util.List<ReservedElasticsearchInstanceOffering>"",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "ReservedElasticsearchInstanceOfferings",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferings",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : true,
    "listModel" : {
        "implType" : "java.util.ArrayList",
        "interfaceType" : "java.util.List",
        "listMemberModel" : {
}}
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "ReservedElasticsearchInstanceOffering",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the { @link ReservedElasticsearchInstanceOffering.Builder } avoiding the need to create one manually via { @link ReservedElasticsearchInstanceOffering#builder() }.

When the { @link Consumer } completes, { @link ReservedElasticsearchInstanceOffering.Builder#build() } is called immediately and its result is passed to { @link #member(ReservedElasticsearchInstanceOffering) }.

@link ReservedElasticsearchInstanceOffering.Builder @param member a consumer that will call methods on
{ @link ReservedElasticsearchInstanceOffering.Builder }
@return Returns a reference to this object so that method calls can be chained together.

@see #member(ReservedElasticsearchInstanceOffering)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@link ReservedElasticsearchInstanceOffering.Builder
@return Returns a reference to this object so that method calls can be chained together.

@see #member(ReservedElasticsearchInstanceOffering)",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@link getMember
@return The value of the Member property for this object.

"getterModel" : {
  "returnType" : "ReservedElasticsearchInstanceOffering",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"sensitive": false,

"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "ReservedElasticsearchInstanceOffering",
  "variableName": "member",
  "variableType": "ReservedElasticsearchInstanceOffering",
  "documentation": null,
  "simpleType": "ReservedElasticsearchInstanceOffering",
  "variableSetterType": "ReservedElasticsearchInstanceOffering"
},
"simple" : false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ReservedElasticsearchInstanceOffering",
  "variableName": "member",
  "variableType": "ReservedElasticsearchInstanceOffering",
  "documentation": null,
  "simpleType": "ReservedElasticsearchInstanceOffering",
  "variableSetterType": "ReservedElasticsearchInstanceOffering"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "ReservedElasticsearchInstanceOffering",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple" : false,
"simpleType": "ReservedElasticsearchInstanceOffering",
"templateImplType": "java.util.ArrayList<ReservedElasticsearchInstanceOffering>",
"templateType": "java.util.List<ReservedElasticsearchInstanceOffering>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "ReservedElasticsearchInstanceOfferings",
"sensitive": false,

"setterDocumentation": "<p>List of reserved Elasticsearch instance offerings</p>\n\n@param
reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings",
"setterMethodName" : "setReservedElasticsearchInstanceOfferings",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
  "variableName" : "reservedElasticsearchInstanceOfferings",
  "variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
  "documentation" : null,
  "simpleType" : "List<ReservedElasticsearchInstanceOffering>",
  "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
  "variableName" : "reservedElasticsearchInstanceOfferings",
  "variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
  "documentation" : "List of reserved Elasticsearch instance offerings",
  "simpleType" : "List<ReservedElasticsearchInstanceOffering>",
  "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>"
},
"xmlnsNameSpaceUri" : null
}];

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "NextToken",
  "defaultConsumerFluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.<br/>{@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link nextToken(String)}.<br/>nextToken a consumer that will call methods on {@link String.Builder}@return Returns a reference to this object so that method calls can be chained together.<br/>see #nextToken(String)",
  "deprecated" : false,
  "documentation" : "<p>Provides an identifier to allow retrieval of paginated results.<br/>
endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "nextToken",
  "fluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.<br/>
nextToken Provides an identifier to allow retrieval of paginated results.<br/>return Returns a reference to this object so that method calls can be chained together."
  "fluentSetterMethodName" : "nextToken",
  "getterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.<br/>
return

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Provides an identifier to allow retrieval of paginated results.

```json
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "NextToken",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "NextToken",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"敏感" : false,
"setterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param
nextToken Provides an identifier to allow retrieval of paginated results.

"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "variableSetterType" : "String"
}
```
Provides an identifier to allow retrieval of paginated results.

List of reserved Elasticsearch instance offerings

Attempts to modify the collection returned by this method will result in an UnsupportedOperation exception.

List of reserved Elasticsearch instance offerings

When the Consumer completes, List<ReservedElasticsearchInstanceOffering>.Builder.build() is called immediately and its result is passed to List<ReservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)).

List<ReservedElasticsearchInstanceOffering>.Builder

Returns a reference to this object so that method calls can be chained together.

@link

List<ReservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)

List of reserved Elasticsearch instance offerings

List of reserved Elasticsearch instance offerings

List of reserved Elasticsearch instance offerings

List of reserved Elasticsearch instance offerings

List of reserved Elasticsearch instance offerings

List of reserved Elasticsearch instance offerings

List of reserved Elasticsearch instance offerings

List of reserved Elasticsearch instance offerings
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceOfferings",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceOfferings",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ReservedElasticsearchInstanceOffering",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the {@link ReflectedProperty#getMember(ReservedElasticsearchInstanceOffering)} method that can be called directly on the object. When the method completes, the result is returned from this method.
@param member a consumer that will call methods on the object.
@return Returns a reference to this object so that method calls can be chained together.\n@see #member(ReservedElasticsearchInstanceOffering)",
    "deprecated" : false,
    "documentation" : ""
  },
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@returns a reference to this object so that method calls can be chained together.\n@see #member(ReservedElasticsearchInstanceOffering)",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n@returns The value of the Member property for this object."
  },
  "getterModel" : {
    "returnType" : "ReservedElasticsearchInstanceOffering",
    "documentation" : null
  },
  "http" : {
    "method" : "POST",
    "uri" : null
  },
  "isBinary" : false,
  "isStreaming" : false,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstanceOfferings",
  "queryParameters" : null,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferings",
  "uri" : false
}
}
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
" sensitive": false,
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@\n
@param member The new value for the Member property for this object."
,"setterMethodName": "setMember",
"setterModel": {
 "variableDeclarationType": "ReservedElasticsearchInstanceOffering",
 "variableName": "member",
 "variableType": "ReservedElasticsearchInstanceOffering",
 "documentation": null,
 "simpleType": "ReservedElasticsearchInstanceOffering",
 "variableSetterType": "ReservedElasticsearchInstanceOffering"
 },
"simple": false,
"timestampFormat": null,
"variable": {
 "variableDeclarationType": "ReservedElasticsearchInstanceOffering",
 "variableName": "member",
 "variableType": "ReservedElasticsearchInstanceOffering",
 "documentation": "",
 "simpleType": "ReservedElasticsearchInstanceOffering",
 "variableSetterType": "ReservedElasticsearchInstanceOffering"
 },
"xmlnsSpaceUri": null
}
"memberLocationName" : null,
"memberType" : "ReservedElasticsearchInstanceOffering",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "ReservedElasticsearchInstanceOffering",
"templateImplType" : "java.util.ArrayList<ReservedElasticsearchInstanceOffering>",
"templateType" : "java.util.List<ReservedElasticsearchInstanceOffering>"]
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ReservedElasticsearchInstanceOfferings",
"sensitive" : false,
"setterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>@param
reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings",
"setterMethodName" : "setReservedElasticsearchInstanceOfferings",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
  "variableName" : "reservedElasticsearchInstanceOfferings",
  "variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
  "documentation" : null,
  "simpleType" : "List<ReservedElasticsearchInstanceOffering>",
  "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
  "variableName" : "reservedElasticsearchInstanceOfferings",
  "variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
  "documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
  "simpleType" : "List<ReservedElasticsearchInstanceOffering>",
  "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>"
},
"xmlNameSpaceUri" : null
}
],
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : null,
"shapeName" : "DescribeReservedElasticsearchInstanceOfferingsResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
}
],
"variable" : {

"variableDeclarationType": "DescribeReservedElasticsearchInstanceOfferingsResponse",
"variableName": "describeReservedElasticsearchInstanceOfferingsResponse",
"variableType": "DescribeReservedElasticsearchInstanceOfferingsResponse",
"documentation": null,
"simpleType": "DescribeReservedElasticsearchInstanceOfferingsResponse",
"variableSetterType": "DescribeReservedElasticsearchInstanceOfferingsResponse"
},
"wrapper": false,
"DescribeReservedElasticsearchInstancesRequest": {
"c2jName": "DescribeReservedElasticsearchInstancesRequest",
"customization": {
  "artificialResultWrapper": null,
  "skipGeneratingMarshaller": false,
  "skipGeneratingModelClass": false,
  "skipGeneratingUnmarshaller": false,
  "staxTargetDepthOffset": 0
},
"deprecated": false,
"documentation": "<p>Container for parameters to <code>DescribeReservedElasticsearchInstances</code></p>",
"endpointDiscovery": null,
"enums": null,
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": {
  "action": "DescribeReservedElasticsearchInstances",
  "locationName": null,
  "requestUri": "/2015-01-01/es/reservedInstances",
  "target": null,
  "verb": "GET",
  "xmlNameSpaceUri": null
},
"members": [
  {
    "beanStyleGetterMethodName": "getReservedElasticsearchInstanceId",
    "beanStyleSetterMethodName": "setReservedElasticsearchInstanceId",
    "c2jName": "ReservedElasticsearchInstanceId",
    "c2jShape": "GUID",
    "defaultConsumerFluentSetterDocumentation": "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID."<p>This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via
</p>
When the `@link Consumer` completes, `@link String.Builder#build()` is called immediately and its result is passed to `@link reservedElasticsearchInstanceId(String)`.

```java
public void reservedElasticsearchInstanceId(@Nullable String reservedElasticsearchInstanceId) {
    // Implementation goes here
}
```

The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

```java
public class ReservedElasticsearchInstanceId {
    public String reservedElasticsearchInstanceId;

    public ReservedElasticsearchInstanceId(String reservedElasticsearchInstanceId) {
        this.reservedElasticsearchInstanceId = reservedElasticsearchInstanceId;
    }
}
```

Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

```java
public class ReservedElasticsearchInstanceId {
    public String reservedElasticsearchInstanceId;

    public ReservedElasticsearchInstanceId(String reservedElasticsearchInstanceId) {
        this.reservedElasticsearchInstanceId = reservedElasticsearchInstanceId;
    }
}
```

Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

```java
public class ReservedElasticsearchInstanceId {
    public String reservedElasticsearchInstanceId;

    public ReservedElasticsearchInstanceId(String reservedElasticsearchInstanceId) {
        this.reservedElasticsearchInstanceId = reservedElasticsearchInstanceId;
    }
}
```

Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

```java
public class ReservedElasticsearchInstanceId {
    public String reservedElasticsearchInstanceId;

    public ReservedElasticsearchInstanceId(String reservedElasticsearchInstanceId) {
        this.reservedElasticsearchInstanceId = reservedElasticsearchInstanceId;
    }
}
```

Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

```java
public class ReservedElasticsearchInstanceId {
    public String reservedElasticsearchInstanceId;

    public ReservedElasticsearchInstanceId(String reservedElasticsearchInstanceId) {
        this.reservedElasticsearchInstanceId = reservedElasticsearchInstanceId;
    }
}
```
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservedElasticsearchInstanceId",
"sensitive": false,
"setterDocumentation": "<p>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</p>@param reservedElasticsearchInstanceId The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.",
"setterMethodName": "setReservedElasticsearchInstanceId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceId",
  "variableType": "String",
  "documentation": "<p>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getMaxResults",
"beanStyleSetterMethodName": "setMaxResults",
"c2jName": "MaxResults",
"c2jShape": "MaxResults",
"defaultConsumerFluentSetterDocumentation": "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
\nThis is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer#builder()]. When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link #maxResults(Integer)].
\n@see #maxResults(Integer)"
,
"deprecated": false,
"documentation": "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
"endpointDiscoveryId": false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p><p>@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.</p><p>@return Returns a reference to this object so that method calls can be chained together.</p>",
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p><p>@return Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
"getterModel" : {
	"returnType" : "Integer",
	"documentation" : null
},
"http" : {
	"additionalMarshallingPath" : null,
	"additionalUnmarshallingPath" : null,
	"flattened" : false,
	"greedy" : false,
	"header" : false,
	"isPayload" : false,
	"isStreaming" : false,
	"location" : "querystring",
	"marshallLocation" : "QUERY_PARAM",
	"marshallLocationName" : "maxResults",
	"queryString" : true,
	"statusCode" : false,
	"unmarshallLocationName" : "maxResults",
	"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
" sensitive" : false,
"setterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p><p>@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
"setterMethodName" : "setMaxResults",
"setterModel" : {
	"variableDeclarationType" : "Integer",
}
"variableName": "maxResults",
"variableType": "Integer",
"documentation": null,
"simpleType": "Integer",
"variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "Integer",
"variableName": "maxResults",
"variableType": "Integer",
"documentation": "Set this value to limit the number of results returned. If not specified, defaults to 100."",
"simpleType": "Integer",
"variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
},
"defaultConsumerFluentSetterDocumentation": "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}. Returns a reference to this object so that method calls can be chained together.

@see #nextToken(String)",
"deprecated": false,
"documentation": "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "null",
"fluentEnumSetterMethodName": "null",
"fluentGetterMethodName": "nextToken",
"fluentSetterDocumentation": "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@see #nextToken(String)",
"getterDocumentation": "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

fluentSetterMethodName": "nextToken",
"getterDocumentation": "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination."}
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "querystring",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "nextToken",
    "queryString" : true,
    "statusCode" : false,
    "unmarshallLocationName" : "nextToken",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,

"setterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>

@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.",

"setterMethodName" : "setNextToken",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "nextToken",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,

"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "nextToken",
    "variableType" : "String",
    "variableSetterType" : "String"}
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

*documentation*:

```xml
<description>
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
</description>
```

*simpleType*:

```xml
"String",
```

*variableSetterType*:

```xml
"String"
```
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"sensitive" : false,
"setterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p><param maxResults Satoshi value to limit the number of results returned. If not specified, defaults to 100.

"setterMethodName" : "setMaxResults",
"setterModel" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "maxResults",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "maxResults",
    "variableType" : "Integer",
    "documentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>"
},
"XMLNameSpaceUri" : null
},
"NextToken" : {
    "beanStyleGetterMethodName" : "getNextToken",
    "beanStyleSetterMethodName" : "setNextToken",
    "c2jName" : "NextToken",
    "c2jShape" : "NextToken"
"defaultConsumerFluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #nextToken(String) }.

When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #nextToken(String) }.

```
@see #nextToken(String)"
"deprecated" : false,
"documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumgetterMethodName" : null,
"fluentEnumsetterMethodName" : null,
"fluentgetterMethodName" : "nextToken",
"fluentsetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
@return Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)",
"getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@return NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
@see #nextToken(String)",
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "querystring",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "nextToken",
    "queryString" : true,
    "statusCode" : false,
    "unmarshallLocationName" : "nextToken",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

```
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
```

```
@see #reservedElasticsearchInstanceId(String)
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@return Returns a reference to this object so that method calls can be chained together.
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@see #reservedElasticsearchInstanceId(String)
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@return Returns a reference to this object so that method calls can be chained together.
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@see #reservedElasticsearchInstanceId(String)
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@return Returns a reference to this object so that method calls can be chained together.
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@see #reservedElasticsearchInstanceId(String)
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@return Returns a reference to this object so that method calls can be chained together.
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@see #reservedElasticsearchInstanceId(String)
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@return Returns a reference to this object so that method calls can be chained together.
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@see #reservedElasticsearchInstanceId(String)
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@return Returns a reference to this object so that method calls can be chained together.
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@see #reservedElasticsearchInstanceId(String)
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@return Returns a reference to this object so that method calls can be chained together.
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@see #reservedElasticsearchInstanceId(String)
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@return Returns a reference to this object so that method calls can be chained together.
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@see #reservedElasticsearchInstanceId(String)
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@return Returns a reference to this object so that method calls can be chained together.
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder#build()}`. When the `{@link Consumer} completing, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #reservedElasticsearchInstanceId(String)}`.

```
@see #reservedElasticsearchInstanceId(String)
```
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.\n@param reservedElasticsearchInstanceId The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservedElasticsearchInstanceId",
"getterDocumentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.\n@return The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID."
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "reservationId",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "reservationId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"sensitive" : false,
"setterDocumentation" : "The reserved instance identifier filter value. Use this parameter to show only the
reservation that matches the specified reserved Elasticsearch instance ID.

@Param
reservedElasticsearchInstanceId The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

    "setterMethodName" : "setReservedElasticsearchInstanceId",
    "setterModel" : {
        "variableDeclarationType" : "String",
        "variableName" : "reservedElasticsearchInstanceId",
        "variableType" : "String",
        "documentation" : null,
        "simpleType" : "String",
        "variableSetterType" : "String"
    },
    "simple" : true,
    "timestampFormat" : null,
    "variable" : {
        "variableDeclarationType" : "String",
        "variableName" : "reservedElasticsearchInstanceId",
        "variableType" : "String",
        "documentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.",
        "simpleType" : "String",
        "variableSetterType" : "String"
    },
    "xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
    "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
    "c2jName" : "ReservedElasticsearchInstanceId",
    "c2jShape" : "GUID",
    "defaultConsumerFluentSetterDocumentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

This is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via { @link String#builder()}.\n\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #reservedElasticsearchInstanceId(String)].\n\n@Param
reservedElasticsearchInstanceId a consumer that will call methods on [ @link String.Builder]\n\n@Return Returns a reference to this object so that method calls can be chained together.\n@see #reservedElasticsearchInstanceId(String)",
    "deprecated" : false,
    "documentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
}
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "&lt;p&gt;The reserved instance identifier filter value. Use this parameter to show only the
reservation that matches the specified reserved Elasticsearch instance ID.&lt;/p&gt;

@Param
reservedElasticsearchInstanceId The reserved instance identifier filter value. Use this parameter to show only the
reservation that matches the specified reserved Elasticsearch instance ID.

@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName" : "reservedElasticsearchInstanceId",
"getterDocumentation" : "&lt;p&gt;The reserved instance identifier filter value. Use this parameter to show only the
reservation that matches the specified reserved Elasticsearch instance ID.&lt;/p&gt;

@return The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

getterModel" : {
    "returnType" : "String",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "querystring",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "reservationId",
    "queryString" : true,
    "statusCode" : false,
    "unmarshallLocationName" : "reservationId",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"sensitive" : false,
"setterDocumentation" : "&lt;p&gt;The reserved instance identifier filter value. Use this parameter to show only the
reservation that matches the specified reserved Elasticsearch instance ID.&lt;/p&gt;

@Param
reservedElasticsearchInstanceId The reserved instance identifier filter value. Use this parameter to show only the
reservation that matches the specified reserved Elasticsearch instance ID.

setReservedElasticsearchInstanceId The reserved instance identifier filter value. Use this parameter to show only the
reservation that matches the specified reserved Elasticsearch instance ID.

setterMethodName" : "setReservedElasticsearchInstanceId",
"setterModel" : {
    "variableDeclarationType" : "String"
"variableName": "reservedElasticsearchInstanceId",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "reservedElasticsearchInstanceId",
"variableType": "String",
"documentation": "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID."",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getMaxResults",
"beanStyleSetterMethodName": "setMaxResults",
"c2jName": "MaxResults",
"c2jShape": "MaxResults",
"defaultConsumerFluentSetterDocumentation": "Set this value to limit the number of results returned. If not specified, defaults to 100. This is a convenience that creates an instance of the Integer.Builder avoiding the need to create one manually via Integer.builder(). When the Consumer completes, Integer.Builder#build() is called immediately and its result is passed to Integer#maxResults(Integer). param maxResults a consumer that will call methods on Integer.Builder@return Returns a reference to this object so that method calls can be chained together.

@see #maxResults(Integer)",
"deprecated": false,
"documentation": "Set this value to limit the number of results returned. If not specified, defaults to 100."
,"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "maxResults",
"fluentSetterDocumentation": "Set this value to limit the number of results returned. If not specified, defaults to 100. @param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.@return Returns a reference to this object so that method calls can be chained together. 

@see #maxResults(Integer)",
"getterDocumentation": "Set this value to limit the number of results returned. If not specified, defaults to 100.",
"getterModel": {
"returnType": "Integer",
"documentation": null,
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "querystring",
  "marshallLocation": "QUERY_PARAM",
  "marshallLocationName": "maxResults",
  "queryString": true,
  "statusCode": false,
  "unmarshallLocationName": "maxResults",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "MaxResults",
"sensitive": false,
"setterDocumentation": "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.",
"setterMethodName": "setMaxResults",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "maxResults",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "maxResults",
  "variableType": "Integer",
  "documentation": "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>"
"simpleType": "Integer",
"variableSetterType": "Integer"
},
"xmlnsNameSpaceUri": null
},
"beanStyleGetterMethodName": "getNextToken",
"beanStyleSetterMethodName": "setNextToken",
"c2jName": "NextToken",
"c2jShape": "NextToken",
"defaultConsumerFluentSetterDocumentation": "<p>NextToken should be sent in case if earlier API call
produced result containing NextToken. It is used for pagination.</p>
This is a convenience that creates an instance
of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\n\nWhen the
{@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to
{@link #nextToken(String)}.\n\n@see
#nextToken(String)",
"deprecated": false,
"documentation": "<p>NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "nextToken",
"fluentSetterDocumentation": "<p>NextToken should be sent in case if earlier API call produced result
containing NextToken. It is used for pagination.</p>
@param nextToken NextToken should be sent in case if
earlier API call produced result containing NextToken. It is used for pagination.</p>
@return Returns a reference to
this object so that method calls can be chained together.",
"fluentSetterMethodName": "nextToken",
"getterDocumentation": "<p>NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination.</p>

@see
#nextToken(String)",
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": "querystring",
"marshallLocation": "QUERY_PARAM",
"returnType": "String",
"documentation": null
},
"marshallLocationName" : "nextToken",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "nextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DescribeReservedElasticsearchInstancesRequest",
"simpleMethod" : true,
"unmarshaller" : null,
"variable" : {

"variableDeclarationType" : "DescribeReservedElasticsearchInstancesRequest",
"variableName" : "describeReservedElasticsearchInstancesRequest",
"variableType" : "DescribeReservedElasticsearchInstancesRequest",
"documentation" : null,
"simpleType" : "DescribeReservedElasticsearchInstancesRequest",
"variableSetterType" : "DescribeReservedElasticsearchInstancesRequest"
},
"wrapper" : false
},
"DescribeReservedElasticsearchInstancesResponse" : {
 "c2jName" : "DescribeReservedElasticsearchInstancesResponse",
 "customization" : {
  "artificialResultWrapper" : null,
  "skipGeneratingMarshaller" : false,
  "skipGeneratingModelClass" : false,
  "skipGeneratingUnmarshaller" : false,
  "staxTargetDepthOffset" : 0
 },
 "deprecated" : false,
 "documentation" : "<p>Container for results from <code>DescribeReservedElasticsearchInstances</code></p>",
 "endpointDiscovery" : null,
 "enums" : null,
 "errorCode" : null,
 "event" : false,
 "eventStream" : false,
 "explicitEventPayloadMember" : null,
 "hasHeaderMember" : false,
 "hasPayloadMember" : false,
 "hasStatusCodeMember" : false,
 "hasStreamingMember" : false,
 "httpStatusCode" : null,
 "marshaller" : null,
 "members" : [ {
 "beanStyleGetterMethodName" : "getNextToken",
 "beanStyleSetterMethodName" : "setNextToken",
 "c2jName" : "NextToken",
 "c2jShape" : "String",
 "defaultConsumerFluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String.Builder#build()}. When the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #nextToken(String)}.
\n@param nextToken a consumer that will call methods on \n{@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #nextToken(String)"
},
 "deprecated" : false,
 "documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
 "endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "nextToken",
"fluentSetterDocumentation": "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param
nextToken Provides an identifier to allow retrieval of paginated results.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "nextToken",
"getterDocumentation": "<p>Provides an identifier to allow retrieval of paginated results.</p>
@return Provides an identifier to allow retrieval of paginated results.",
"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "NextToken",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "NextToken",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NextToken",
"sensitive": false,
"setterDocumentation": "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param
nextToken Provides an identifier to allow retrieval of paginated results.",
"setterMethodName": "setNextToken",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "nextToken",
"variableType": "String",
"documentation": null,
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstances",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstances",
"uri" : false

"list" : true,
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
  "beanStyleGetterMethodName" : "getMember",
  "beanStyleSetterMethodName" : "setMember",
  "c2jName" : "member",
  "c2jShape" : "ReservedElasticsearchInstance",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the ReservedElasticsearchInstance.Builder avoiding the need to create one manually via ReservedElasticsearchInstance.builder(). When the Consumer completes, ReservedElasticsearchInstance.Builder#build() is called immediately and its result is passed toReservedElasticsearchInstance.Builder#member() and the method calls on ReservedElasticsearchInstance.Builder#member() can be chained together.

@see #member(ReservedElasticsearchInstance)"
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.
@see #member(ReservedElasticsearchInstance)"
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of
the Member property for this object.

"getterModel" : {
    "returnType" : "ReservedElasticsearchInstance",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.

setterMethodName" : "setMember",
"setterModel" : {
    "variableDeclarationType" : "ReservedElasticsearchInstance",
    "variableName" : "member",
    "variableType" : "ReservedElasticsearchInstance",
    "documentation" : null,
    "simpleType" : "ReservedElasticsearchInstance",
    "variableSetterType" : "ReservedElasticsearchInstance"
},

"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "ReservedElasticsearchInstance",
    "variableName" : "member",
    "variableType" : "ReservedElasticsearchInstance",
    "documentation" : null,
    "simpleType" : "ReservedElasticsearchInstance",
    "variableSetterType" : "ReservedElasticsearchInstance"}
"c2jName" : "NextToken",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results. This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link nextToken(String) }. @param nextToken a consumer that will call methods on { @link String.Builder } @return Returns a reference to this object so that method calls can be chained together.@see nextToken(String)",
"deprecated" : false,
"documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param nextToken Provides an identifier to allow retrieval of paginated results.
@return Provides an identifier to allow retrieval of paginated results.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@return Provides an identifier to allow retrieval of paginated results.",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "NextToken",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "NextToken",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param
nextToken Provides an identifier to allow retrieval of paginated results.",
"setterMethodName" : "setNextToken",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "nextToken",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "nextToken",
    "variableType" : "String",
    "documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ReservedElasticsearchInstances" : {
    "beanStyleGetterMethodName" : "getReservedElasticsearchInstances",
    "beanStyleSetterMethodName" : "setReservedElasticsearchInstances",
    "c2jName" : "ReservedElasticsearchInstances",
    "c2jShape" : "ReservedElasticsearchInstanceList",
    "defaultConsumerFluentSetterDocumentation" : "<p>List of reserved Elasticsearch instances.</p>
    "This is a convenience that creates an instance of the {\link List<ReservedElasticsearchInstance>.Builder} avoiding the need to create one manually via {\link List<ReservedElasticsearchInstance>#builder()}.\n    When the {\link Consumer} completes, {\link List<ReservedElasticsearchInstance>.Builder#build()} is called immediately and its result is passed to {\link #reservedElasticsearchInstances(List<ReservedElasticsearchInstance>)}.\n    @param
reservedElasticsearchInstances a consumer that will call methods on {\link List<ReservedElasticsearchInstance>.Builder}\n    Returns a reference to this object so that method calls can be chained together.\n    @see #reservedElasticsearchInstances(List<ReservedElasticsearchInstance>)",
    "deprecated" : false,
    "documentation" : "<p>List of reserved Elasticsearch instances.</p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstances",
"fluentSetterDocumentation" : "<p>List of reserved Elasticsearch instances.</p>
@param reservedElasticsearchInstances List of reserved Elasticsearch instances.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservedElasticsearchInstances",
"getterDocumentation" : "<p>List of reserved Elasticsearch instances.</p>
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return List of reserved Elasticsearch instances.",
"getterModel" : {
  "returnType" : "java.util.List<ReservedElasticsearchInstance>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstances",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstances",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ReservedElasticsearchInstance",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the [ReservedElasticsearchInstance.Builder] avoiding
the need to create one manually via [ReservedElasticsearchInstance#builder()].

When the [ReservedElasticsearchInstance.Builder#build()] is called immediately and its result is passed to
[ReservedElasticsearchInstance.Builder#member(ReservedElasticsearchInstance)]
@param member a consumer that will call methods on [ReservedElasticsearchInstance.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #member(ReservedElasticsearchInstance)"},
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the [ReservedElasticsearchInstance.Builder]
avoiding the need to create one manually via [ReservedElasticsearchInstance#builder()].

When the [ReservedElasticsearchInstance.Builder#build()] is called immediately and its result is passed to
[ReservedElasticsearchInstance.Builder#member(ReservedElasticsearchInstance)]
@param member a consumer that will call methods on [ReservedElasticsearchInstance.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #member(ReservedElasticsearchInstance)"}
The new value for the Member property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

The new value for the Member property for this object.

@returns The value of the Member property for this object.

"setterDocumentation" : "Sets the value of the Member property for this object.

@returns The new value for the Member property for this object.

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "ReservedElasticsearchInstance",
  "variableName" : "member",
  "variableType" : "ReservedElasticsearchInstance",
  "documentation" : null,
  "simpleType" : "ReservedElasticsearchInstance",
  "variableSetterType" : "ReservedElasticsearchInstance"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ReservedElasticsearchInstance",
  "variableName" : "member",
  "variableType" : "ReservedElasticsearchInstance",
  "documentation" : null,
  "simpleType" : "ReservedElasticsearchInstance",
  "variableSetterType" : "ReservedElasticsearchInstance"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "ReservedElasticsearchInstance",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "ReservedElasticsearchInstance",
"templateImplType" : "java.util.ArrayList<ReservedElasticsearchInstance>",
"templateType" : "java.util.List<ReservedElasticsearchInstance>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ReservedElasticsearchInstances",
"sensitive" : false,
"setterDocumentation" : "List of reserved Elasticsearch instances.

@param reservedElasticsearchInstances List of reserved Elasticsearch instances.",
"setterMethodName" : "setReservedElasticsearchInstances",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<ReservedElasticsearchInstance>",
  "variableName" : "reservedElasticsearchInstances",
  "variableType" : "java.util.List<ReservedElasticsearchInstance>",
  "documentation" : null,
  "simpleType" : "List<ReservedElasticsearchInstance>",
  "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstance>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : 
   "variableDeclarationType" : "java.util.List<ReservedElasticsearchInstance>",
   "variableName" : "reservedElasticsearchInstances",
   "variableType" : "java.util.List<ReservedElasticsearchInstance>",
   "documentation" : "<p>List of reserved Elasticsearch instances.</p>",
   "simpleType" : "List<ReservedElasticsearchInstance>",
   "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstance>",
},
"xmlNameSpaceUri" : null,
],
"nonStreamingMembers" : [ 
   "beanStyleGetterMethodName" : "getNextToken",
   "beanStyleSetterMethodName" : "setNextToken",
   "c2jName" : "NextToken",
   "c2jShape" : "String",
   "defaultConsumerFluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #nextToken(String)].\n\n@param nextToken a consumer that will call methods on [@link String.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #nextToken(String)",
   "deprecated" : false,
   "documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
   "endpointDiscoveryId" : false,
   "enumType" : null,
   "eventHeader" : false,
   "eventPayload" : false,
   "fluentEnumGetterMethodName" : null,
   "fluentEnumSetterMethodName" : null,
   "fluentGetterMethodName" : "nextToken",
   "fluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>\n\n@param nextToken Provides an identifier to allow retrieval of paginated results.\n\n@return Returns a reference to this object so that method calls can be chained together."
   "returnType" : "String",
   "documentation" : null
],
"http" : 
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "isPayload" : false,
   "isFlattened" : false,
   "isGreedy" : false,
   "header" : false,
   "isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param
nextToken Provides an identifier to allow retrieval of paginated results."
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getReservedElasticsearchInstances",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstances",
"c2jName" : "ReservedElasticsearchInstances",
"c2jShape" : "ReservedElasticsearchInstanceList",
"defaultConsumerFluentSetterDocumentation" : "<p>List of reserved Elasticsearch instances.</p>
This is a convenience that creates an instance of the \{ @link List<ReservedElasticsearchInstance>.Builder\} avoiding the need
to create one manually via `@link List<ReservedElasticsearchInstance>#builder()`.

When the `@link Consumer` completes, `@link List<ReservedElasticsearchInstance>.Builder#build()` is called immediately and its result is passed to `@link reservedElasticsearchInstances(List<ReservedElasticsearchInstance>)`.

@see #reservedElasticsearchInstances(List<ReservedElasticsearchInstance>)

"deprecated" : false,
"interfaceType" : "java.util.List",
"listMemberModel" : {
  "beanStyleGetterMethodName" : "getMember",
  "beanStyleSetterMethodName" : "setMember",
  "c2jName" : "member",
  "c2jShape" : "ReservedElasticsearchInstance",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the { @link ReservedElasticsearchInstance.Builder} avoiding the need to create one manually via { @link ReservedElasticsearchInstance#builder()}. When the { @link Consumer} completes, { @link ReservedElasticsearchInstance.Builder#build()} is called immediately and its result is passed to { @link #member(ReservedElasticsearchInstance)}.

@see #member(ReservedElasticsearchInstance)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@see #member(ReservedElasticsearchInstance)",
  "getterDocumentation" : "Returns the value of the Member property for this object.

The value of the Member property for this object.

@see #member(ReservedElasticsearchInstance)",
  "getterModel" : {
    "returnType" : "ReservedElasticsearchInstance",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
  }
},

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"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"sensitive": false,
"setterDocumentation": "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object."
,"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "ReservedElasticsearchInstance",
  "variableName": "member",
  "variableType": "ReservedElasticsearchInstance",
  "documentation": null,
  "simpleType": "ReservedElasticsearchInstance",
  "variableSetterType": "ReservedElasticsearchInstance"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ReservedElasticsearchInstance",
  "variableName": "member",
  "variableType": "ReservedElasticsearchInstance",
  "documentation": "",
  "simpleType": "ReservedElasticsearchInstance",
  "variableSetterType": "ReservedElasticsearchInstance"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "ReservedElasticsearchInstance",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "ReservedElasticsearchInstance",
"templateImplType": "java.util.ArrayList<ReservedElasticsearchInstance>",
"templateType": "java.util.List<ReservedElasticsearchInstance>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "ReservedElasticsearchInstances",
"sensitive": false,
List of reserved Elasticsearch instances.

```java
public void setReservedElasticsearchInstances(List<ReservedElasticsearchInstance> reservedElasticsearchInstances)
```

List of reserved Elasticsearch instances.

```java
public List<ReservedElasticsearchInstance> getReservedElasticsearchInstances()
```

List of reserved Elasticsearch instances.
An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.,
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ ]
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code>.</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via
[@link String#builder()].
When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to
[@link #domainName(String)].
@name param domainName a consumer that will call methods on
[@link String.Builder]@return Returns a reference to this object so that method calls can be
chained together.
@see #domainName(String)
  
  "deprecated" : false,
  "documentation" : "<p> Specifies the <code>DomainName</code>.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code>.</p>
@name param domainName Specifies the <code>DomainName</code>.
@name @return Returns a reference to this object so that method calls can be
chained together.
",
  "getterDocumentation" : "<p> Specifies the <code>DomainName</code>.</p>
@name @return Specifies the <code>DomainName</code>
",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
Specifies the `<code>DomainName</code>`.

```java

"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
}
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p> Specifies the <code>DomainName</code>.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
"membersAsMap" : {
  "DomainName" : {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "DomainName",
    "queryString" : false,
    "statusCode" : false,
    "marshallLocationName" : "DomainName",
    "uri" : false
  },
  "isPayload" : false,
  "marshallType" : "DomainName",
  "marshallLocationName" : "DomainName",
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "uri" : false
}
"isPayload" : false,
"isStreaming" : false,
"location" : null,

"marshallType" : "DomainName",
"marshallLocationName" : "DomainName",
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"marshallLocationName" : "DomainName",
"uri" : false
},
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"marshallLocationName" : "DomainName",
"uri" : false
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p> Specifies the <code>DomainName</code>.</p>
@param domainName

Specifies the `<code>DomainName</code>`.

```

"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
}
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p> Specifies the <code>DomainName</code>.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}

"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"marshallLocationName" : "DomainName",
"uri" : false
},
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code>.</p>"n
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via{@link String#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #domainName(String)}.\n@param domainName a consumer that will call methods on { @link String.Builder} \n@returns Returns a reference to this object so that method calls can be chained together.\n@see #domainName(String)",
"deprecated" : false,
"documentation" : "<p> Specifies the <code>DomainName</code>.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code>.</p>
@param domainName Specifies the <code>DomainName</code>.
@return Specifies the <code>DomainName</code>.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p> Specifies the <code>DomainName</code>.</p>
@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
\"returnType" : "String",
\"documentation" : null
},
"http" : {
\"additionalMarshallingPath" : null,
\"additionalUnmarshallingPath" : null,
\"flattened" : false,
\"greedy" : false,
\"header" : false,
\"isPayload" : false,
\"isStreaming" : false,
\"location" : null,
\"marshallLocation" : "PAYLOAD",
\"marshallLocationName" : "DomainName",
\"queryString" : false,
\"statusCode" : false,
\"unmarshallLocationName" : "DomainName",
\"uri" : false
},
\"idempotencyToken" : false,
\"isBinary" : false,
\"jsonValue" : false,
\"list" : false,
\"listModel" : null,
\"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the <code>DomainName</code>. </p>
@param domainName
Specifies the <code>DomainName</code>.
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p> Specifies the <code>DomainName</code>. </p>
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code>. </p>
  "@param domainName
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called
immediately and its result is passed to {@link #domainName(String)}. a consumer that will
call methods on
{@link String.Builder} and return

  Returns a reference to this object so that method calls can be
  chained together.
  @param see #domainName(String)
  
  "deprecated" : false,
  "documentation" : "<p> Specifies the <code>DomainName</code>. </p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterMethodName" : null,
  "marshallingType" : "STRING",
  "name" : "DomainName",
  "sensitive" : false,
  "setterDocumentation" : "<p> Specifies the <code>DomainName</code>. </p>
  "setterMethodName" : "setDomainName",
  "setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : "<p> Specifies the <code>DomainName</code>. </p>
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code>. </p>
  "@param domainName
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called
immediately and its result is passed to
{@link #domainName(String)}. a consumer that will
call methods on
{@link String.Builder} and return

  Returns a reference to this object so that method calls can be
  chained together.
  @param see #domainName(String)
  
  "deprecated" : false,
  "documentation" : "<p> Specifies the <code>DomainName</code>. </p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterMethodName" : null,
  "marshallingType" : "STRING",
  "name" : "DomainName",
  "sensitive" : false,
  "setterDocumentation" : "<p> Specifies the <code>DomainName</code>. </p>
  "setterMethodName" : "setDomainName",
  "setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : "<p> Specifies the <code>DomainName</code>. </p>
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "xmlNameSpaceUri" : null
}];
Specifies the `<code>DomainName</code>`.

### Fluent Setter Documentation

**`fluentSetterDocumentation`**

<p>Specifies the `<code>DomainName</code>`.</p>

**`fluentSetterMethodName`**

`domainName`

**`getterDocumentation`**

<p>Specifies the `<code>DomainName</code>`.</p>

**`getterModel`**

```json
{
  "returnType": "String",
  "documentation": null
}
```

**`http`**

```json
{
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "DomainName",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "DomainName",
  "uri": false
}
```

### Setter Documentation

**`setterDocumentation`**

<p>Specifies the `<code>DomainName</code>`.</p>

**`setterMethodName`**

`setDomainName`

**`setterModel`**

```json
{
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
}
```

**`simple`**

true
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : "<p> Specifies the <code>DomainName</code>.
</p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
},
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : null,
"shapeName" : "DomainInfo",
"simpleMethod" : false,
"unmarshaller" : {
    "flattened" : false,
    "resultWrapper" : null
},
"variable" : {
    "variableDeclarationType" : "DomainInfo",
    "variableName" : "domainInfo",
    "variableType" : "DomainInfo",
    "documentation" : null,
    "simpleType" : "DomainInfo",
    "variableSetterType" : "DomainInfo"
},
"wrapper" : false
},
"EBSOptions" : {
    "c2jName" : "EBSOptions",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "Options to enable, disable, and specify the properties of EBS storage volumes. For
more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-
createdomains.html#es-createdomain-configure-ebs" target="_blank"> Configuring EBS-based Storage</a>
.
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getEbsEnabled",
  "beanStyleSetterMethodName" : "setEbsEnabled",
  "c2jName" : "EBSEnabled",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "\p>Specifies whether EBS-based storage is enabled.</p>\nThis is a convenience that creates an instance of the [@link Boolean.Builder] avoiding the need to create one manually via [@link Boolean#builder()].\nWhen the [@link Consumer] completes, [@link Boolean.Builder#build()] is called immediately and its result is passed to [@link #ebsEnabled(Boolean)].\n@return Returns a reference to this object so that method calls can be chained together.\n@see #ebsEnabled(Boolean)",
  "deprecated" : false,
  "documentation" : "<p>Specifies whether EBS-based storage is enabled.</p>\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "ebsEnabled",
  "fluentSetterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>\n@param ebsEnabled Specifies whether EBS-based storage is enabled.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "ebsEnabled",
  "getterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>\n@return Specifies whether EBS-based storage is enabled.\n"endpointDiscoveryId" : false,
  "getterModel" : {
    "returnType" : "Boolean",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
Specifies whether EBS-based storage is enabled.

Specifies whether EBS-based storage is enabled.

Specifies the volume type for EBS-based storage.

This is a convenience that creates an instance of the @link String.Builder avoiding the need to create one manually via @link String#builder().

When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link
@param volumeType a consumer that will call methods on \[@link String.Builder\] \n@return Returns a reference to this object so that method calls can be chained together. \n@see #volumeTypeAsString\n
    "deprecated": false,
    "documentation": "<p> Specifies the volume type for EBS-based storage. </p>",
    "endpointDiscoveryId": false,
    "enumType": "VolumeType",
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": "volumeType",
    "fluentEnumSetterMethodName": "volumeType",
    "fluentGetterMethodName": "volumeTypeAsString",
    "fluentSetterDocumentation": "<p> Specifies the volume type for EBS-based storage. </p>
If the service returns an enum value that is not available in the current SDK version, \[@link VolumeType\] will return \[@link VolumeType#UNKNOWN_TO_SDK_VERSION\]. The raw value returned by the service is available from \[@link VolumeTypeAsString\]. \n@see VolumeType

    "getterDocumentation": "<p> Specifies the volume type for EBS-based storage. </p>
If the service returns an enum value that is not available in the current SDK version, \[@link VolumeType\] will return \[@link VolumeType#UNKNOWN_TO_SDK_VERSION\]. The raw value returned by the service is available from \[@link VolumeTypeAsString\]. \n@see VolumeType",
    "getterModel": {
        "returnType": "String",
        "documentation": null
    },
    "http": {
        "additionalMarshallingPath": null,
        "additionalUnmarshallingPath": null,
        "flattened": false,
        "greedy": false,
        "header": false,
        "isPayload": false,
        "isStreaming": false,
        "location": null,
        "marshallLocation": "PAYLOAD",
        "marshallLocationName": "VolumeType",
        "queryString": false,
        "statusCode": false,
        "unmarshallLocationName": "VolumeType",
        "uri": false
    },
    "idempotencyToken": false,
    "isBinary": false,
    "jsonValue": false,
    "list": false,
    "listModel": null,
    "map": false,
    "mapModel": null,
    "marshallingType": "STRING"
"name" : "VolumeType",
"setterMethod" : {
    "setterDocumentation" : "<p> Specifies the volume type for EBS-based storage.</p>
    @param volumeType
Specifies the volume type for EBS-based storage.
    @see VolumeType",
    "setterMethodName" : "setVolumeType",
    "setterModel" : {
        "variableDeclarationType" : "String",
        "variableName" : "volumeType",
        "variableType" : "String",
        "documentation" : null,
        "simpleType" : "String",
        "variableSetterType" : "String"
    },
    "simple" : true,
    "timestampFormat" : null,
    "variable" : {
        "variableDeclarationType" : "String",
        "variableName" : "volumeType",
        "variableType" : "String",
        "documentation" : "<p> Specifies the volume type for EBS-based storage.</p>
        @param volumeType
Specifies the volume type for EBS-based storage.
        @see VolumeType",
        "simple" : true,
        "timestampFormat" : null,
        "variable" : {
            "variableDeclarationType" : "String",
            "variableName" : "volumeType",
            "variableType" : "String",
            "documentation" : null,
            "simpleType" : "String",
            "variableSetterType" : "String"
        },
        "xmlNameSpaceUri" : null
    },
    "getterMethodName" : "getVolumeSize",
    "getterMethod" : {
        "getterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
        @param volumeSize
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually
via {@link Integer.Builder#build}).
When the {@link Consumer} completes, {@link Integer.Builder#build}) is
called immediately and its result is passed to {@link VolumeSize#volumeSize}.
Calls the methods on {@link Integer.Builder}.

@returns Returns a reference to this object so that method calls can be
chained together.

@see #volumeSize(Integer)
    "deprecated" : false,
    "documentation" : "<p> Integer to specify the size of an EBS volume.</p>
    @param volumeSize
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually
via {@link Integer.Builder#build}).
When the {@link Consumer} completes, {@link Integer.Builder#build}) is
called immediately and its result is passed to {@link VolumeSize#volumeSize}.
Calls the methods on {@link Integer.Builder}.

@returns Returns a reference to this object so that method calls can be
chained together.

@see #volumeSize(Integer)
    "deprecated" : false,
    "documentation" : "<p> Integer to specify the size of an EBS volume.</p>
    @param volumeSize
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually
via {@link Integer.Builder#build}).
When the {@link Consumer} completes, {@link Integer.Builder#build}) is
called immediately and its result is passed to {@link VolumeSize#volumeSize}.
Calls the methods on {@link Integer.Builder}.

@returns Returns a reference to this object so that method calls can be
chained together.

@see #volumeSize(Integer)
    "deprecated" : false,
    "documentation" : "<p> Integer to specify the size of an EBS volume.</p>
    @param volumeSize
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually
via {@link Integer.Builder#build}).
When the {@link Consumer} completes, {@link Integer.Builder#build}) is
called immediately and its result is passed to {@link VolumeSize#volumeSize}.
Calls the methods on {@link Integer.Builder}.

@returns Returns a reference to this object so that method calls can be
chained together.

@see #volumeSize(Integer)
    "deprecated" : false,
"getterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>\n@return Integer to specify the size of an EBS volume.",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VolumeSize",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VolumeSize",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "VolumeSize",
"sensitive" : false,
"setterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>\n@param volumeSize Integer to specify the size of an EBS volume.",
"setterMethodName" : "setVolumeSize",
"setterModel" : {
"variableDeclarationType" : "Integer",
"variableName" : "volumeSize",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "volumeSize",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
}
"variableType" : "Integer",
"documentation" : "<p> Integer to specify the size of an EBS volume.</p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
],
{
"beanStyleGetterMethodName" : "getIops",
"beanStyleSetterMethodName" : "setIops",
"c2jName" : "Iops",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>

This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link @param iops a consumer that will call methods on {@link Integer.Builder}return Returns a reference to this object so that method calls can be chained together.see #iops(Integer)".
"deprecated" : false,
"documentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "iops",
"fluentSetterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>

This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link @param iops a consumer that will call methods on {@link Integer.Builder}return Returns a reference to this object so that method calls can be chained together.see #iops(Integer)".
"fluentSetterMethodName" : "iops",
"getterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>

This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link @param iops a consumer that will call methods on {@link Integer.Builder}return Returns a reference to this object so that method calls can be chained together.see #iops(Integer)".
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Iops",
"queryString" : false,
"variableType" : "Integer",
"documentation" : "<p> Integer to specify the size of an EBS volume.</p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
]}
iops Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).

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Boolean.Builder|n@returns a reference to this object so that method calls can be chained together.|n|seebseEnabled(Boolean)|
|"deprecated" : false,
|"documentation" : "<p>Specifies whether EBS-based storage is enabled.</p>",
|"endpointDiscoveryId" : false,
|"enumType" : null,
|"eventId" : false,
|"eventProperties" : false,
|"fluentEnumGetterMethodName" : null,
|"fluentEnumSetterMethodName" : null,
|"fluentGetterMethodName" : "ebsEnabled",
|"fluentSetterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>
|param ebsEnabled|n@returns a reference to this object so that method calls can be chained together.
|"fluentSetterMethodName" : "ebsEnabled",
|"getterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>
|getterModel" : {
|"returnType" : "Boolean",
|"documentation" : null
},
|"http" : {
|"additionalMarshallingPath" : null,
|"additionalUnmarshallingPath" : null,
|"flattened" : false,
|"greedy" : false,
|"header" : false,
|"isPayload" : false,
|"isStreaming" : false,
|"location" : null,
|"marshallLocation" : "PAYLOAD",
|"marshallLocationName" : "EBSEnabled",
|"queryString" : false,
|"statusCode" : false,
|"unmarshallLocationName" : "EBSEnabled",
|"uri" : false
},
|"idempotencyToken" : false,
|"isBinary" : false,
|"jsonValue" : false,
|"list" : false,
|"listModel" : null,
|"map" : false,
|"mapModel" : null,
|"marshallingType" : "BOOLEAN",
|"name" : "EBSEnabled",
|"sensitive" : false,
|"setterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>
|\n|@param ebsEnabled
Specifies whether EBS-based storage is enabled."

setterMethodName" : "setEbsEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "ebsEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "ebsEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"Iops" : {
  "beanStyleGetterMethodName" : "getIops",
  "beanStyleSetterMethodName" : "setIops",
  "c2jName" : "Iops",
  "c2jShape" : "IntegerClass",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>
This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer.Builder#builder()}. When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #iops(Integer)}. Returns a reference to this object so that method calls can be chained together. See #iops(Integer)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>"
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "iops",
  "fluentSetterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>
@see #iops(Integer)"
  "fluentSetterMethodName" : "iops",
  "getterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>"
  "endpointDiscoveryId" : false,
  "enumType" : null,
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  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "iops",
  "fluentSetterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>
@see #iops(Integer)"
  "fluentSetterMethodName" : "iops",
  "getterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>"
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "iops",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "iops",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "iops",
"sensitive" : false,
"setterDocumentation" : "&lt;p&gt;Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).&lt;/p&gt;\n\n@param
iops Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).",
"setterMethodName" : "setIops",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "iops",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "iops",
  "variableType" : "Integer",
  "documentation" : "&lt;p&gt;Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).&lt;/p&gt;",}
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"VolumeSize" : {
"beanStyleGetterMethodName" : "getVolumeSize",
"beanStyleSetterMethodName" : "setVolumeSize",
"c2jName" : "VolumeSize",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer#builder()].
When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link volumeSize(Integer)].
@param volumeSize a consumer that will call methods on [@link Integer.Builder]
@see #volumeSize(Integer)
"depreciated" : false,
"documentation" : "<p> Integer to specify the size of an EBS volume.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "volumeSize",
"fluentSetterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
@param volumeSize Integer to specify the size of an EBS volume.<p>
@see #volumeSize(Integer)
@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "volumeSize",
"getterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
@return Integer to specify the size of an EBS volume.
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VolumeSize",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VolumeSize",
"uri" : false
}
,"idempotencyToken" : false, 
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "VolumeSize",
"sensitive" : false,
"setterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
@param volumeSize Integer to specify the size of an EBS volume.",
"setterMethodName" : "setVolumeSize",
"setterModel" : {
"variableDeclarationType" : "Integer",
"variableName" : "volumeSize",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "volumeSize",
"variableType" : "Integer",
"documentation" : "<p> Integer to specify the size of an EBS volume.</p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"VolumeType" : {
"beanStyleGetterMethodName" : "getVolumeTypeAsString",
"beanStyleSetterMethodName" : "setVolumeType",
"c2jName" : "VolumeType",
"c2jShape" : "VolumeType",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the volume type for EBS-based storage.</p>
\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #volumeTypeAsString(String)}.
\n@param volumeType a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
\n@see #volumeType(String)",

"deprecated" : false,
"documentation" : "<p> Specifies the volume type for EBS-based storage. </p>",

"endpointDiscoveryId" : false,
"enumType" : "VolumeType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "volumeType",
"fluentEnumSetterMethodName" : "volumeType",
"fluentGetterMethodName" : "volumeTypeAsString",
"fluentSetterDocumentation" : "<p> Specifies the volume type for EBS-based storage. </p>

@param volumeType Specifies the volume type for EBS-based storage. 
@see VolumeType
@return Returns a reference to this object so that method calls can be chained together. 
@see VolumeType",
"fluentSetterMethodName" : "volumeType",

"getterDocumentation" : "<p> Specifies the volume type for EBS-based storage. </p>

If the service returns an enum value that is not available in the current SDK version, [@link #volumeType] will return [@link VolumeType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #volumeTypeAsString].

@return Specifies the volume type for EBS-based storage. 
@see VolumeType",

"getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VolumeType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VolumeType",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "VolumeType",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the volume type for EBS-based storage. </p>

@param volumeType

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Specifies the volume type for EBS-based storage.

```java
"setterMethodName" : "setVolumeType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "volumeType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "volumeType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
```

This is a convenience that creates an instance of the `Boolean.Builder` avoiding the need to create one manually via `Boolean#builder()`. When the `Boolean.Builder#build()` is called immediately and its result is passed to the `ebsEnabled(Boolean)` method.

```java
@deprecated
defaultConsumerFluentSetterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsEnabled",
"fluentSetterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>
@param ebsEnabled a consumer that will call methods on
@return Returns a reference to this object so that method calls can be chained together.
@see #ebsEnabled(Boolean)
"fluentSetterMethodName" : "ebsEnabled",
```
"getterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>

@return Specifies whether EBS-based storage is enabled.",

"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "EBSEnabled",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "EBSEnabled",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "BOOLEAN",

"name" : "EBSEnabled",

"setterMethodName" : "setEbsEnabled",

"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "ebsEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "ebsEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "BOOLEAN",

"name" : "EBSEnabled",

"sensitive" : false,

"setterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>

@param ebsEnabled Specifies whether EBS-based storage is enabled.",

"setterMethodName" : "setEbsEnabled",

"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "ebsEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "ebsEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"}
"variableType" : "Boolean",
"documentation" : "<p>Specifies whether EBS-based storage is enabled.</p>",
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null,
{
"beanStyleGetterMethodName" : "getVolumeTypeAsString",
"beanStyleSetterMethodName" : "setVolumeType",
"c2jName" : "VolumeType",
"c2jShape" : "VolumeType",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the volume type for EBS-based storage.</p>\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #volumeTypeAsString(String)}.\n@param volumeType a consumer that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see VolumeType(String)",
"deprecated" : false,
"documentation" : "<p> Specifies the volume type for EBS-based storage.</p>",
"endpointDiscoveryId" : false,
"enumType" : "VolumeType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "volumeType",
"fluentEnumSetterMethodName" : "volumeType",
"fluentGetterMethodName" : "volumeTypeAsString",
"fluentSetterDocumentation" : "<p> Specifies the volume type for EBS-based storage.</p>
@param volumeType Specifies the volume type for EBS-based storage.\n@see VolumeType\n@return Returns a reference to this object so that method calls can be chained together.\n@see VolumeType",
"fluentSetterMethodName" : "volumeType",
"getterDocumentation" : "<p> Specifies the volume type for EBS-based storage.</p>\nIf the service returns an enum value that is not available in the current SDK version, {@link #volumeType} will return {@link VolumeType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #volumeTypeAsString}.\n@return Specifies the volume type for EBS-based storage.\n@see VolumeType",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VolumeType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VolumeType",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "VolumeType",
"setterDocumentation" : "<p> Specifies the volume type for EBS-based storage.</p><p>@param volumeType</p>
Specifies the volume type for EBS-based storage.

@see VolumeType",
"setterMethodName" : "setVolumeType",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "volumeType",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "volumeType",
"variableType" : "String",
"documentation" : "<p> Specifies the volume type for EBS-based storage.</p> 
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getVolumeSize",
"beanStyleSetterMethodName" : "setVolumeSize",
"c2jName" : "VolumeSize",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p> 

This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer#builder()]. When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link #volumeSize(Integer)].

@param volumeSize a consumer that
will call methods on \{@link Integer.Builder\}.
\n@return Returns a reference to this object so that method calls can be chained together.
\n@see #volumeSize(Integer)

  "deprecated" : false,
  "documentation" : "<p> Integer to specify the size of an EBS volume.</p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventId" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "volumeSize",
  "fluentSetterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
  "get\n\n@return Returns a reference to this object so that method calls can be chained together.

  "getterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "VolumeSize",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "VolumeSize",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "INTEGER",
  "name" : "VolumeSize",
  "sensitive" : false,
  "setterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
  "@param volumeSize Integer
to specify the size of an EBS volume.
"setterMethodName" : "setVolumeSize",
"setterModel" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "volumeSize",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "volumeSize",
    "variableType" : "Integer",
    "documentation" : 
        " Integer to specify the size of an EBS volume."
        "
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}
, {
"beanStyleGetterMethodName" : "getIops",
"beanStyleSetterMethodName" : "setIops",
"c2jName" : "Iops",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : 
    " Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
    This is a convenience that creates an instance of the {
        @link Integer.Builder
    } avoiding the need to create one manually via {
        @link Integer#builder()
    }. When the {
        @link Consumer
    } completes, {
        @link Integer.Builder#build()
    } is called immediately and its result is passed to {
        @link #iops(Integer)
    }. Returns a reference to this object so that method calls can be chained together.
    
    "deprecated" : false,
    "documentation" : 
        " Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
    
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "iops",
    "fluentSetterDocumentation" : 
        " Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
    
    "getterDocumentation" : " Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
    
    "getterModel" : {

"returnType": "Integer",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Iops",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Iops",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "Iops",
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "Integer",
"variableName": "iops",
"variableType": "Integer",
"documentation": null,
"simpleType": "Integer",
"variableSetterType": "Integer"
},
"setterDocumentation": "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>
@param
iops Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).",
"setterMethodName": "setIops",
"setterModel": {
"variableDeclarationType": "Integer",
"variableName": "iops",
"variableType": "Integer",
"documentation": null,
"simpleType": "Integer",
"variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "Integer",
"variableName": "iops",
"variableType": "Integer",
"documentation": "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>",
"simpleType": "Integer"}
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "EBSOptions",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "EBSOptions",
"variableName" : "ebsOptions",
"variableType" : "EBSOptions",
"documentation" : null,
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"wrapper" : false
},
"EBSOptionsStatus" : {
"c2jName" : "EBSOptionsStatus",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Status of the EBS options for the specified Elasticsearch domain.</p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
"beanStyleGetterMethodName" : "getOptions",
"variableName" : "ebsOptions",
"variableType" : "EBSOptions",
"variableSetterType" : "EBSOptions"}]
}
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. 

This is a convenience that creates an instance of the {@link EBSOptions.Builder} avoiding the need to create one manually via {@link EBSOptions#builder()}. 

When the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to the object. 

When the consumer completes, the method calls can be chained together. 

@see #options(EBSOptions)",

"deprecated" : false,
"documentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. </p>

@param options Specifies the EBS options for the specified Elasticsearch domain. 

@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. </p>

@return Specifies the EBS options for the specified Elasticsearch domain.",

"getterModel" : {
  "returnType" : "EBSOptions",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"setterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>\n@param options Specifies the EBS options for the specified Elasticsearch domain."
,"setterMethodName" : "setOptions",
"setterModel" : {
   "variableDeclarationType" : "EBSOptions",
   "variableName" : "options",
   "variableType" : "EBSOptions",
   "documentation" : null,
   "simpleType" : "EBSOptions",
   "variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "EBSOptions",
   "variableName" : "options",
   "variableType" : "EBSOptions",
   "documentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>",
   "simpleType" : "EBSOptions",
   "variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "OptionStatus",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.

This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link OptionStatus#status(OptionStatus)}.\n@param status a consumer that will call methods on {@link OptionStatus.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see OptionStatus"
,"deprecated" : false,
"documentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p><p>@param status Specifies the status of the EBS options for the specified Elasticsearch domain.</p><p>@return Returns a reference to this object so that method calls can be chained together.\</p>
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p><p>@return Specifies the status of the EBS options for the specified Elasticsearch domain.</p>",
"setterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p><p>@param status Specifies the status of the EBS options for the specified Elasticsearch domain.</p><p>@return Specifies the status of the EBS options for the specified Elasticsearch domain.</p>",
"setterMethodName" : "setStatus",
"setterModel" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : null,
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"


"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p>",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},

"membersAsMap" : {
  "Options" : {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "EBSOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>\n\nThis is a convenience that creates an instance of the { @link EBSOptions.Builder} avoiding the need
to create one manually via { @link EBSOptions#builder()}.\n\nWhen the { @link Consumer} completes, { @link EBSOptions.Builder#build()} is called immediately and its result is passed to { @link #options(EBSOptions)}.\n\n@see #options(EBSOptions)",
  "deprecated" : false,
  "documentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>\n\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "options",
  "fluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>
@param options Specifies the EBS options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together."
  "fluentSetterMethodName" : "options",
  "getterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>
@return Specifies the EBS options for the specified Elasticsearch domain.
\ngetterModel" : {
  "returnType" : "EBSOptions",
  "documentation" : null
},
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Options",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Options",
"uri": false,
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Options",
"sensitive": false,
"setterDocumentation": "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>
@param
options Specifies the EBS options for the specified Elasticsearch domain.",
"setterMethodName": "setOptions",
"setterModel": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "options",
  "variableType": "EBSOptions",
  "documentation": null,
  "simpleType": "EBSOptions",
  "variableSetterType": "EBSOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "options",
  "variableType": "EBSOptions",
  "documentation": "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>",
  "simpleType": "EBSOptions",
  "variableSetterType": "EBSOptions"
},
"xmlNameSpaceUri": null
},
"Status": {
  "beanStyleGetterMethodName": "getStatus",
  "beanStyleGetterMethodType": "EBSStatus",
  "getterDocumentation": "<p> Get the EBS status for the specified Elasticsearch domain.</p>",
  "getterMethodType": "EBSStatus",
  "setterMethodName": "setStatus",
  "setterMethodType": "EBSStatus"
}
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus#builder()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link OptionStatus}.<p>
@returns a reference to this object so that method calls can be chained together.<p>
see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>
@returns a reference to this object so that method calls can be chained together.<p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>
@returns a reference to this object so that method calls can be chained together.<p>
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the status of the EBS options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the EBS options for the specified Elasticsearch domain."
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p>Specifies the status of the EBS options for the specified Elasticsearch domain.</p>"
},
"xmlNameSpaceUri" : null,

"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "EBSOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the EBS options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link EBSOptions.Builder} avoiding the need to create one manually via {@link EBSOptions#builder()}. When the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link #options(EBSOptions)}. %param options a consumer that will call methods on {@link EBSOptions.Builder}%returns Returns a reference to this object so that method calls can be chained together.%@see #options(EBSOptions)
"depreciated" : false,
"documentation" : "<p>Specifies the EBS options for the specified Elasticsearch domain.</p>"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch
domain.</p><p>@param options Specifies the EBS options for the specified Elasticsearch domain.</p><p>@return Returns a reference to this object so that method calls can be chained together.
</p>
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p><p>@return Specifies the EBS options for the specified Elasticsearch domain.</p>
getterModel" : {
"returnType" : "EBSOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
" sensitive" : false,
"setterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p><p>@param options Specifies the EBS options for the specified Elasticsearch domain.</p><p>@return Specifies the EBS options for the specified Elasticsearch domain.</p>
setterModel" : {
"variableDeclarationType" : "EBSOptions",
"variableName" : "options",
"variableType" : "EBSOptions",
"documentation" : null,
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "EBSOptions",
"variableName" : "options",
"variableType" : "EBSOptions",
"documentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>",
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}. When the Consumer completes, it is called immediately and its result is passed to

```java
@link OptionStatus.Builder#build()}
@see #status(OptionStatus)
```

"deprecated" : false,
"documentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the EBS options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.

```java
@link OptionStatus.Builder#build()}
@see #status(OptionStatus)
```

"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p>
@return Specifies the status of the EBS options for the specified Elasticsearch domain.

```java
@link OptionStatus.Builder#build()}
@see #status(OptionStatus)
```

"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Status",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Status",
"uri": false,
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
"setterDocumentation": "<p>Specifies the status of the EBS options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the EBS options for the specified Elasticsearch domain.",
"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p>Specifies the status of the EBS options for the specified Elasticsearch domain.</p>",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
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"xmlnsSpaceUri": null
} ];
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required" : [ "Options", "Status" ],
"shapeName" : "EBSOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
    "flattened" : false,
    "resultWrapper" : null
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"variable" : {
    "variableDeclarationType" : "EBSOptionsStatus",
    "variableName" : "ebsOptionsStatus",
    "variableType" : "EBSOptionsStatus",
    "documentation" : null,
    "simpleType" : "EBSOptionsStatus",
    "variableSetterType" : "EBSOptionsStatus"
},
"wrapper" : false
},
"ESPartitionInstanceType" : {
    "c2jName" : "ESPartitionInstanceType",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
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    "deprecated" : false,
    "documentation" : "",
    "endpointDiscovery" : null,
    "enums" : [ {
        "name" : "M3_MEDIUM_ELASTICSEARCH",
        "value" : "m3.medium.elasticsearch"
    }, {
        "name" : "M3_LARGE_ELASTICSEARCH",
        "value" : "m3.large.elasticsearch"
    }, {
        "name" : "M3_XLARGE_ELASTICSEARCH",
        "value" : "m3.xlarge.elasticsearch"
    }, {
        "name" : "M3_2_XLARGE_ELASTICSEARCH",
        "value" : "m3.2xlarge.elasticsearch"
    }, {
        "name" : "M4_LARGE_ELASTICSEARCH",
        "value" : "m4.large.elasticsearch"
    }, {
        "name" : "M4_XLARGE_ELASTICSEARCH",
        "value" : "m4.xlarge.elasticsearch"
    } ]}
"name": "M4_2_XLARGE_ELASTICSEARCH",
"value": "m4.2xlarge.elasticsearch"
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"name": "M4_4_XLARGE_ELASTICSEARCH",
"value": "m4.4xlarge.elasticsearch"
},

"name": "M4_10_XLARGE_ELASTICSEARCH",
"value": "m4.10xlarge.elasticsearch"
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"name": "T2_MICRO_ELASTICSEARCH",
"value": "t2.micro.elasticsearch"
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"name": "T2_SMALL_ELASTICSEARCH",
"value": "t2.small.elasticsearch"
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"name": "T2_MEDIUM_ELASTICSEARCH",
"value": "t2.medium.elasticsearch"
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"name": "R3_LARGE_ELASTICSEARCH",
"value": "r3.large.elasticsearch"
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"name": "R3_XLARGE_ELASTICSEARCH",
"value": "r3.xlarge.elasticsearch"
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"value": "r3.2xlarge.elasticsearch"
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"name": "R3_4_XLARGE_ELASTICSEARCH",
"value": "r3.4xlarge.elasticsearch"
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"name": "R3_8_XLARGE_ELASTICSEARCH",
"value": "r3.8xlarge.elasticsearch"
},

"name": "I2_XLARGE_ELASTICSEARCH",
"value": "i2.xlarge.elasticsearch"
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"name": "I2_2_XLARGE_ELASTICSEARCH",
"value": "i2.2xlarge.elasticsearch"
},

"name": "D2_XLARGE_ELASTICSEARCH",
"value": "d2.xlarge.elasticsearch"
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"value": "d2.2xlarge.elasticsearch"
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"name": "D2_4_XLARGE_ELASTICSEARCH",
"value": "d2.4xlarge.elasticsearch"
}
"name": "D2_8_XLARGE_ELASTICSEARCH",
"value": "d2.8xlarge.elasticsearch"
},

"name": "C4_LARGE_ELASTICSEARCH",
"value": "c4.large.elasticsearch"
},

"name": "C4_XLARGE_ELASTICSEARCH",
"value": "c4.xlarge.elasticsearch"
},

"name": "C4_2_XLARGE_ELASTICSEARCH",
"value": "c4.2xlarge.elasticsearch"
},

"name": "C4_4_XLARGE_ELASTICSEARCH",
"value": "c4.4xlarge.elasticsearch"
},

"name": "C4_8_XLARGE_ELASTICSEARCH",
"value": "c4.8xlarge.elasticsearch"
},

"name": "R4_LARGE_ELASTICSEARCH",
"value": "r4.large.elasticsearch"
},

"name": "R4_XLARGE_ELASTICSEARCH",
"value": "r4.xlarge.elasticsearch"
},

"name": "R4_2_XLARGE_ELASTICSEARCH",
"value": "r4.2xlarge.elasticsearch"
},

"name": "R4_4_XLARGE_ELASTICSEARCH",
"value": "r4.4xlarge.elasticsearch"
},

"name": "R4_8_XLARGE_ELASTICSEARCH",
"value": "r4.8xlarge.elasticsearch"
},

"name": "R4_16_XLARGE_ELASTICSEARCH",
"value": "r4.16xlarge.elasticsearch"
},

"name": "I3_LARGE_ELASTICSEARCH",
"value": "i3.large.elasticsearch"
},

"name": "I3_XLARGE_ELASTICSEARCH",
"value": "i3.xlarge.elasticsearch"
},

"name": "I3_2_XLARGE_ELASTICSEARCH",
"value": "i3.2xlarge.elasticsearch"
},

"name": "I3_4_XLARGE_ELASTICSEARCH",
"value": "i3.4xlarge.elasticsearch"
},

"name": "I3_8_XLARGE_ELASTICSEARCH",
"value": "i3.8xlarge.elasticsearch"
}
"name": "i3_8_XLARGE_ELASTICSEARCH",
"value": "i3.8xlarge.elasticsearch"
},

"name": "i3_16_XLARGE_ELASTICSEARCH",
"value": "i3.16xlarge.elasticsearch"
}
,"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [],
"membersAsMap": {},
"nonStreamingMembers": [],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "ESPartitionInstanceType",
"simpleMethod": false,
"unmarshaller": {
"flattened": false,
"resultWrapper": null
},
"variable": {
"variableDeclarationType": "ESPartitionInstanceType",
"variableName": "esPartitionInstanceType",
"variableType": "ESPartitionInstanceType",
"documentation": null,
"simpleType": "ESPartitionInstanceType",
"variableSetterType": "ESPartitionInstanceType"
},
"wrapper": false
},
"ElasticsearchClusterConfig": {
"c2jName": "ElasticsearchClusterConfig",
"customization": {
"artificialResultWrapper": null,
"skipGeneratingMarshaller": false,
"skipGeneratingModelClass": false,
"skipGeneratingUnmarshaller": false,
"staxTargetDepthOffset": 0
},
"deprecated": false
"documentation": "<p>Specifies the configuration for the domain cluster, such as the type and number of instances.</p>",
"endpointDiscovery": null,
"enums": null,
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [ {
  "beanStyleGetterMethodName": "getInstanceTypeAsString",
  "beanStyleSetterMethodName": "setInstanceType",
  "c2jName": "InstanceType",
  "c2jShape": "ESPartitionInstanceType",
  "defaultValue": "The instance type for an Elasticsearch cluster.

This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link instanceTypeAsString(String)\}.\n@param instanceType a consumer that will call methods on \{@link String.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #instanceType(String)",
  "deprecated": false,
  "documentation": "<p>The instance type for an Elasticsearch cluster.</p>

If the service returns an enum value that is not available in the current SDK version, \{@link #instanceType\} will return \{@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION\}. The raw value returned by the service is available from \{@link instanceTypeAsString\}.\n@param instanceType\n@return The instance type for an Elasticsearch cluster.\n@see ESPartitionInstanceType"
} ]
"http": {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceType",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "InstanceType",
"sensitive" : false,
"setterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>
@param instanceType The instance type for an Elasticsearch cluster.
@see ESPartitionInstanceType",
"setterMethodName" : "setInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : "<p>The instance type for an Elasticsearch cluster.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
"beanStyleGetterMethodName" : "getInstanceCount",
"beanStyleSetterMethodName" : "setInstanceCount",
"c2jName" : "InstanceCount",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p>The number of instances in the specified domain cluster.
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, the
{@link Integer.Builder#build()} is called immediately and its result is passed to
{@link #instanceCount(Integer)}.\n@see #instanceCount(Integer)",
"deprecated" : false,
"documentation" : "<p>The number of instances in the specified domain cluster.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceCount",
"fluentSetterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
@param instanceCount The number of instances in the specified domain cluster.
@return Returns a reference to this object so that method calls can be chained together.
@see #instanceCount(Integer)",
"fluentSetterMethodName" : "instanceCount",
"getterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
@return The number of instances in the specified domain cluster.
@see #instanceCount(Integer)",
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "InstanceCount",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "InstanceCount",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"getterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
@param instanceCount The number of instances in the specified domain cluster.",
"getterMethodName" : "getInstanceCount",
"getterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of instances in the specified domain cluster.</p>
"simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null},
{"beanStyleGetterMethodName" : "getDedicatedMasterEnabled",
"beanStyleSetterMethodName" : "setDedicatedMasterEnabled",
"c2jName" : "DedicatedMasterEnabled",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link dedicatedMasterEnabled(Boolean)}. A consumer that will call methods on
{@link Boolean.Builder} will return a reference to this object so that method calls can be chained together.
@see dedicatedMasterEnabled(Boolean)",
"deprecated" : false,
"documentation" : "A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
}
A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes">About Dedicated Master Nodes</a> for more information.

@returns Returns a reference to this object so that method calls can be chained together.

A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes">About Dedicated Master Nodes</a> for more information.

@return A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes">About Dedicated Master Nodes</a> for more information.


"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "DedicatedMasterEnabled",
"sensitive": false,
"setterDocumentation": "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.</p>
@param dedicatedMasterEnabled A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.",
"setterMethodName": "setDedicatedMasterEnabled",
"setterModel": {
  "variableDeclarationType": "Boolean",
  "variableName": "dedicatedMasterEnabled",
  "variableType": "Boolean",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "dedicatedMasterEnabled",
  "variableType": "Boolean",
  "documentation": "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.</p>
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
};
"beanStyleGetterMethodName": "getZoneAwarenessEnabled",
"beanStyleSetterMethodName": "setZoneAwarenessEnabled",
"c2jName": "ZoneAwarenessEnabled",
"c2jShape": "Boolean",
"defaultConsumerFluentSetterDocumentation": "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean.Builder}).

When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link ZoneAwarenessEnabled(Boolean)}.

@target=\"_blank\"">About Zone Awareness</a> for more information.

@target=\"_blank\"">About Dedicated Master Nodes</a> for more information.

@target=\"_blank\"">About Dedicated Master Nodes</a> for more information.

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@target=\"_blank\"">About Dedicated Master Nodes</a> for more information.

@target=\"_blank\"">About Zone Awareness</a> for more information.
"setterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>
@param zoneAwarenessEnabled A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.",

"setterMethodName" : "setZoneAwarenessEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "zoneAwarenessEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "zoneAwarenessEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null,
}.

"beanStyleGetterMethodName" : "getDedicatedMasterTypeAsString",
"beanStyleSetterMethodName" : "setDedicatedMasterType",
"c2jName" : "DedicatedMasterType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "<p>The instance type for a dedicated master node.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #dedicatedMasterTypeAsString(String)}.\n@param dedicatedMasterType a consumer that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #dedicatedMasterType(String)",
"deprecated" : false,
"documentation" : "<p>The instance type for a dedicated master node.</p>",
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "dedicatedMasterType",
"fluentEnumSetterMethodName" : "dedicatedMasterType",
"fluentGetterMethodName" : "dedicatedMasterTypeAsString",
"fluentSetterDocumentation" : "The instance type for a dedicated master node.
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType",
"fluentSetterMethodName" : "dedicatedMasterType",
"getterDocumentation" : "The instance type for a dedicated master node.
If the service returns an enum value that is not available in the current SDK version, \{@link deducedMasterType\} will return \{@link ESPartitionInstanceType\#UNKNOWN_TO_SDK_VERSION\}. The raw value returned by the service is available from \{@link deducedMasterTypeAsString\}\.
@return The instance type for a dedicated master node.
@see ESPartitionInstanceType",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DedicatedMasterType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DedicatedMasterType",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DedicatedMasterType",
"sensitive" : false,
"setterDocumentation" : "<p>The instance type for a dedicated master node.</p>
@param dedicatedMasterType The instance type for a dedicated master node.
@see ESPartitionInstanceType",
"setterMethodName" : "setDedicatedMasterType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "dedicatedMasterType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "dedicatedMasterType",
  "variableType" : "String",
  "documentation" : "<p>The instance type for a dedicated master node.</p>
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getDedicatedMasterCount",
"beanStyleSetterMethodName" : "setDedicatedMasterCount",
"c2jName" : "DedicatedMasterCount",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>
  This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer#builder()].
  When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link #dedicatedMasterCount(Integer)].
  @param dedicatedMasterCount a consumer that will call methods on [@link Integer.Builder]n@return Returns a reference to this object so that method calls can be chained together.
  @see #dedicatedMasterCount(Integer)",
"deprecated" : false,
"documentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "dedicatedMasterCount",
"fluentSetterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>
  @param dedicatedMasterCount Total number of dedicated master nodes, active and on standby, for the cluster.
  @return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "dedicatedMasterCount",
"getterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the
cluster.<p@return Total number of dedicated master nodes, active and on standby, for the cluster.”,
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DedicatedMasterCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DedicatedMasterCount",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "DedicatedMasterCount",
"sensitive" : false,
"setterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.<p@param dedicatedMasterCount Total number of dedicated master nodes, active and on standby, for the cluster.”,
"setterMethodName" : "setDedicatedMasterCount",
"setterModel" : {
"variableDeclarationType" : "Integer",
"variableName" : "dedicatedMasterCount",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "dedicatedMasterCount"
"variableType": "Integer",
"documentation": "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>",
"simpleType": "Integer",
"variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
",
"membersAsMap": {
   "DedicatedMasterCount": {
      "beanStyleGetterMethodName": "getDedicatedMasterCount",
      "beanStyleSetterMethodName": "setDedicatedMasterCount",
      "c2jName": "DedicatedMasterCount",
      "c2jShape": "IntegerClass",
      "defaultConsumerFluentSetterDocumentation": "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>
This is a convenience that creates an instance of the class \{ @link Integer.Builder \} avoiding
the need to create one manually via \{ @link Integer#builder() \}.
When the \{ @link Consumer \} completes, \{ @link Integer.Builder#build() \} is called immediately and its result is passed to \{ @link
#dedicatedMasterCount(Integer) \}.
@n@param dedicatedMasterCount a consumer that will call methods on \{ @link
Integer.Builder \} to return a reference to this object so that method calls can be chained together.
@n@see #dedicatedMasterCount(Integer)
   "deprecated": false,
   "documentation": "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>",
   "endpointDiscoveryId": false,
   "enumType": null,
   "eventHeader": false,
   "eventPayload": false,
   "fluentEnumGetterMethodName": null,
   "fluentEnumSetterMethodName": null,
   "fluentGetterMethodName": "dedicatedMasterCount",
   "fluentSetterDocumentation": "<p>Total number of dedicated master nodes, active and on standby, for the
cluster.</p>
@return Total number of dedicated master nodes, active and on standby, for the
cluster.
@n@return Returns a reference to this object so that method calls can be chained together.
"
   "fluentSetterMethodName": "dedicatedMasterCount",
   "getterDocumentation": "<p>Total number of dedicated master nodes, active and on standby, for the
cluster.</p>
@n@return Total number of dedicated master nodes, active and on standby, for the
cluster.
",
   "getterModel": {
      "returnType": "Integer",
      "documentation": null
   },
   "http": {
      "additionalMarshallingPath": null,
      "additionalUnmarshallingPath": null,
      "flattened": false,
      "greedy": false,
      "header": false,
      "isPayload": false,
      "isStreaming": false,
      "location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "DedicatedMasterCount",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "DedicatedMasterCount",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "DedicatedMasterCount",
"sensitive": false,
"setterDocumentation": "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>
@param dedicatedMasterCount Total number of dedicated master nodes, active and on standby, for the cluster.",
"setterMethodName": "setDedicatedMasterCount",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "dedicatedMasterCount",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "dedicatedMasterCount",
  "variableType": "Integer",
  "documentation": "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>",
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
},
"DedicatedMasterEnabled": {
  "beanStyleGetterMethodName": "getDedicatedMasterEnabled",
  "beanStyleSetterMethodName": "setDedicatedMasterEnabled",
  "c2jName": "DedicatedMasterEnabled",
  "c2jShape": "Boolean",
  "defaultConsumerFluentSetterDocumentation": "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-

text"}
A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.

```java
@噤@ recommender=false,
  
  "documentation" : "<p>A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.</p",

  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "dedicatedMasterEnabled",
  "fluentSetterDocumentation" : "<p>A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.</p>
@sn@ @return A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.

```
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DedicatedMasterEnabled",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DedicatedMasterEnabled",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "DedicatedMasterEnabled",
"sensitive" : false,
"setterDocumentation" : "A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.";

"setterMethodName" : "setDedicatedMasterEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "dedicatedMasterEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "dedicatedMasterEnabled",
  "variableType" : "Boolean",
  "documentation" : "A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.";
},
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
}
"DedicatedMasterType" : {
    "beanStyleGetterMethodName" : "getDedicatedMasterTypeAsString",
    "beanStyleSetterMethodName" : "setDedicatedMasterType",
    "c2jName" : "DedicatedMasterType",
    "c2jShape" : "ESPartitionInstanceType",
    "defaultConsumerFluentSetterDocumentation" : "<p>The instance type for a dedicated master node.</p><p>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}. When the {@link Consumer} completes, the result is passed to the method. Use together with other methods.

@see #dedicatedMasterType(String)",
    "deprecated" : false,
    "documentation" : "<p>The instance type for a dedicated master node.</p>",
    "endpointDiscoveryId" : false,
    "enumType" : "ESPartitionInstanceType",
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "dedicatedMasterType",
    "fluentEnumSetterMethodName" : "dedicatedMasterType",
    "fluentGetterMethodName" : "dedicatedMasterTypeAsString",
    "fluentSetterDocumentation" : "<p>The instance type for a dedicated master node.</p>
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see #dedicatedMasterType(String)",
    "fluentSetterMethodName" : "dedicatedMasterType",
    "getterDocumentation" : "<p>The instance type for a dedicated master node.</p>
<p>If the service returns an enum value that is not available in the current SDK version, the raw value returned by the service is available from #dedicatedMasterTypeAsString().</p>
@see ESPartitionInstanceType
@return The instance type for a dedicated master node.
@see ESPartitionInstanceType",
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "DedicatedMasterType",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "DedicatedMasterType",
    }
}
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DedicatedMasterType",
"sensitive" : false,
"setterDocumentation" : "<p>The instance type for a dedicated master node.</p>
@param dedicatedMasterType The instance type for a dedicated master node.<p>
@see ESPartitionInstanceType",
"setterMethodName" : "setDedicatedMasterType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "dedicatedMasterType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "dedicatedMasterType",
  "variableType" : "String",
  "documentation" : "<p>The instance type for a dedicated master node.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"InstanceCount" : {
  "beanStyleGetterMethodName" : "getInstanceCount",
  "beanStyleSetterMethodName" : "setInstanceCount",
  "c2jName" : "InstanceCount",
  "c2jShape" : "IntegerClass",
  "defaultConsumerFluentSetterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to
create one manually via {@link Integer.Builder#builder()}. When the {@link Integer.Builder} completes,
{@link Integer.Builder#build()} is called immediately and its result is passed to
{@link #instanceCount(Integer)}.<p>@param instanceCount a consumer that will call methods on
{@link Integer.Builder}@return Returns a reference to this object so that method calls can be chained together.<p>@see #instanceCount(Integer)",
  "deprecated" : false,
}
"documentation": "The number of instances in the specified domain cluster.",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "instanceCount",
"fluentSetterDocumentation": "The number of instances in the specified domain cluster.
@param instanceCount The number of instances in the specified domain cluster.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "instanceCount",
"getterDocumentation": "The number of instances in the specified domain cluster.
@return The number of instances in the specified domain cluster."
getterModel": {
"returnType": "Integer",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "InstanceCount",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "InstanceCount",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "InstanceCount",
"sensitive": false,
"setterDocumentation": "The number of instances in the specified domain cluster.
@param instanceCount The number of instances in the specified domain cluster.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName": "setInstanceCount",
"setterModel": {
"returnType": "InstanceCount",
"documentation": null
}
"variableDeclarationType" : "Integer",
"variableName" : "instanceCount",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "instanceCount",
"variableType" : "Integer",
"documentation" : "<p>The number of instances in the specified domain cluster.</p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"InstanceType" : {
"beanStyleGetterMethodName" : "getInstanceTypeAsString",
"beanStyleSetterMethodName" : "setInstanceType",
"c2jName" : "InstanceType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>\nThis
is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called
immediately and its result is passed to {@link #instanceTypeAsString(String)}.\n@param instanceType a consumer
that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls
can be chained together.\n@see #instanceType(String)",
"deprecated" : false,
"documentation" : "<p>The instance type for an Elasticsearch cluster.</p>",
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "instanceType",
"fluentEnumSetterMethodName" : "instanceType",
"fluentGetterMethodName" : "instanceTypeAsString",
"fluentSetterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>\n@param instanceType
The instance type for an Elasticsearch cluster.\n@see ESPartitionInstanceType\n@return Returns a reference to this
object so that method calls can be chained together.\n@see ESPartitionInstanceType",
"fluentSetterMethodName" : "instanceType",
"getterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>\n<p>\nIf the service returns
an enum value that is not available in the current SDK version, {@link #instanceType} will return {@link
ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available
from {@link #instanceTypeAsString}.\n</p>\n@return The instance type for an Elasticsearch cluster.\n@see
ESPartitionInstanceType",

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"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "InstanceType",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "InstanceType",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "InstanceType",
"sensitive": false,
"setterDocumentation": "<p>The instance type for an Elasticsearch cluster.</p>
@param instanceType The instance type for an Elasticsearch cluster.
@see ESSetPartitionInstanceType",
"setterMethodName": "setInstanceType",
"setterModel": {
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  "variableName": "instanceType",
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  "variableSetterType": "String"
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"timestampFormat": null,
"variable": {
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  "variableName": "instanceType",
  "variableType": "String",
  "documentation": "<p>The instance type for an Elasticsearch cluster.</p>"
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
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"beanStyleGetterMethodName" : "getZoneAwarenessEnabled",
"beanStyleSetterMethodName" : "setZoneAwarenessEnabled",
"c2jName" : "ZoneAwarenessEnabled",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.&lt;/p&gt;&lt;p&gt;This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean#builder()}.\nWhen the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link ZoneAwarenessEnabled(Boolean)}.\n@param zoneAwarenessEnabled a consumer that will call methods on { @link Boolean.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #zoneAwarenessEnabled(Boolean)",
"deprecated" : false,
"documentation" : "&lt;p&gt;A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.&lt;/p&gt;",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "zoneAwarenessEnabled",
"fluentSetterDocumentation" : "&lt;p&gt;A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.&lt;/p&gt;
@return A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.\n@return A boolean value to indicate whether zone awareness is enabled.\n@see #zoneAwarenessEnabled(Boolean)",
"fluentSetterMethodName" : "zoneAwarenessEnabled",
"getterDocumentation" : "&lt;p&gt;A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.&lt;/p&gt;
@return A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.\n@see #zoneAwarenessEnabled(Boolean)",
"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
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"http" : {
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    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ZoneAwarenessEnabled",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ZoneAwarenessEnabled",
    "uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "ZoneAwarenessEnabled",
"sensitive" : false,

"setterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>@param zoneAwarenessEnabled A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.",
"setterMethodName" : "setZoneAwarenessEnabled",
"setterModel" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "zoneAwarenessEnabled",
    "variableType" : "Boolean",
    "documentation" : null,
    "simpleType" : "Boolean",
    "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "zoneAwarenessEnabled",
    "variableType" : "Boolean",
    "documentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a"
This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #instanceTypeAsString(String)\}. When a consumer that will call methods on \{@link String.Builder\} returns a reference to this object so that method calls can be chained together.

\@see #instanceType(String)

\@param instanceType The instance type for an Elasticsearch cluster.

\@return Returns a reference to this object so that method calls can be chained together.

\@see ESPartitionInstanceType

The instance type for an Elasticsearch cluster.

\@param instanceType

If the service returns an enum value that is not available in the current SDK version, \{@link #instanceType\} will return \{@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION\}. The raw value returned by the service is available from \{@link #instanceTypeAsString\}.

\@return The instance type for an Elasticsearch cluster.

\@see ESPartitionInstanceType

\@param instanceType

\@return Returns a reference to this object so that method calls can be chained together.

\@see ESPartitionInstanceType

\@param instanceType

The instance type for an Elasticsearch cluster.

\@return Returns a reference to this object so that method calls can be chained together.

\@see ESPartitionInstanceType

\@param instanceType

The instance type for an Elasticsearch cluster.

\@param instanceType

The instance type for an Elasticsearch cluster.

\@param instanceType

The instance type for an Elasticsearch cluster.

\@param instanceType

The instance type for an Elasticsearch cluster.

\@param instanceType
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceType",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "InstanceType",
"sensitive" : false,
"setterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>@param instanceType The instance type for an Elasticsearch cluster.<p>@see ESPartitionInstanceType</p>
"setterMethodName" : "setInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : "<p>The instance type for an Elasticsearch cluster.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
  "beanStyleGetterMethodName" : "getInstanceCount",
  "beanStyleSetterMethodName" : "setInstanceCount",
  "c2jName" : "InstanceCount",
  "c2jShape" : "IntegerClass",
  "defaultConsumerFluentSetterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
This is a convenience that creates an instance of the \{@link Integer.Builder\} avoiding the need to
create one manually via \{@link Integer#builder()\}. When the \{@link Consumer} completes, \{@link Integer.Builder#build()\} is called immediately and its result is passed to \{@link instanceCount(Integer)\}. @param instanceCount a consumer that will call methods on \{@link Integer.Builder\}\n@returns Returns a reference to this object so that method calls can be chained together.

@see #instanceCount(Integer)\n
"deprecated" : false,
"documentation" : "<p>The number of instances in the specified domain cluster.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceCount",
"fluentSetterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
@param instanceCount The number of instances in the specified domain cluster.
@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "instanceCount",
"getterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
@return The number of instances in the specified domain cluster.

"getterModel" : {
 "returnType" : "Integer",
 "documentation" : null
 },
"http" : {
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 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "InstanceCount",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "InstanceCount",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER"
"name" : "InstanceCount",
"sensitive" : false,
"setterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
@param instanceCount The number of instances in the specified domain cluster.",
"setterMethodName" : "setInstanceCount",
"setterModel" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "instanceCount",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "instanceCount",
    "variableType" : "Integer",
    "documentation" : "<p>The number of instances in the specified domain cluster.</p>
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
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"xmlNameSpaceUri" : null,

"beanStyleGetterMethodName" : "getDedicatedMasterEnabled",
"beanStyleSetterMethodName" : "setDedicatedMasterEnabled",
"c2jName" : "DedicatedMasterEnabled",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.</p>
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, ({@link Boolean.Builder#build()}) is called immediately and its result is passed to ({@link #dedicatedMasterEnabled(Boolean)}). Returns a reference to this object so that method calls can be chained together.<a href="#dedicatedMasterEnabled(Boolean)">@see #dedicatedMasterEnabled(Boolean)</a>.
"deprecated" : false,
"documentation" : "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "dedicatedMasterEnabled",
"fluentSetterDocumentation" : "A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.\n\n@param dedicatedMasterEnabled A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.\n\n@return Returns a reference to this object so that method calls can be chained together."

, "fluentSetterMethodName" : "dedicatedMasterEnabled",
"getterDocumentation" : "A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.\n\n@return A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information."

, "getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},
"http" : {
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  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DedicatedMasterEnabled",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DedicatedMasterEnabled",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "DedicatedMasterEnabled",
"sensitive" : false,
"setterDocumentation" : "A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.

@param dedicatedMasterEnabled A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information."

"setterMethodName" : "setDedicatedMasterEnabled",
"setterModel" : {
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  "variableName" : "dedicatedMasterEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "dedicatedMasterEnabled",
  "variableType" : "Boolean",
  "documentation" : "A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.

@link Boolean#builder()
@see #zoneAwarenessEnabled(Boolean)
@deprecated"
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlnsSpaceUri" : null
},
"beanStyleGetterMethodName" : "getZoneAwarenessEnabled",
"beanStyleSetterMethodName" : "setZoneAwarenessEnabled",
"c2jName" : "ZoneAwarenessEnabled",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "This is a convenience that creates an instance of the [Boolean.Builder] avoiding the need to create one manually via [Boolean#builder()]. When the [Consumer] completes, [Boolean.Builder#build()] is called immediately and its result is passed to [ZoneAwarenessEnabled(Boolean)].

@link boolean
@see #zoneAwarenessEnabled(Boolean)
@deprecated"
"documentation" : "A boolean value to indicate whether zone awareness is enabled. See [About Zone Awareness](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness) for more information.

This is a convenience that creates an instance of the [Boolean.Builder] avoiding the need to create one manually via [Boolean#builder()]. When the [Consumer] completes, [Boolean.Builder#build()] is called immediately and its result is passed to [ZoneAwarenessEnabled(Boolean)].

@link boolean
@see #zoneAwarenessEnabled(Boolean)
@deprecated"
"deprecated" : false,
"documentation" : "A boolean value to indicate whether zone awareness is enabled. See [About Zone Awareness](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness) for more information."}
"endpointDiscoveryId" : false,
"enumType" : null,
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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "zoneAwarenessEnabled",
"fluentSetterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>
@param zoneAwarenessEnabled A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "zoneAwarenessEnabled",
"getterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>
@return A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.",
"getterModel" : {
 "returnType" : "Boolean",
 "documentation" : null
},
"http" : {
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 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "ZoneAwarenessEnabled",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "ZoneAwarenessEnabled",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "ZoneAwarenessEnabled",
" sensitive" : false,
"setterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>
@param zoneAwarenessEnabled A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.",
"setterMethodName" : "setZoneAwarenessEnabled",
"setterModel" : {
"variableDeclarationType" : "Boolean",
"variableName" : "zoneAwarenessEnabled",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Boolean",
"variableName" : "zoneAwarenessEnabled",
"variableType" : "Boolean",
"documentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>
",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getDedicatedMasterTypeAsString",
"beanStyleSetterMethodName" : "setDedicatedMasterType",
"c2jName" : "DedicatedMasterType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "<p>The instance type for a dedicated master node.</p>\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #dedicatedMasterTypeAsString(String)}}.\n@param dedicatedMasterType A consumer that will call methods on { @link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #dedicatedMasterType(String)",
"deprecated" : false,
"documentation" : "<p>The instance type for a dedicated master node.</p>\n",
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName": "dedicatedMasterType",
"fluentEnumSetterMethodName": "dedicatedMasterType",
"fluentGetMethodName": "dedicatedMasterTypeAsString",
"fluentSetterDocumentation": "The instance type for a dedicated master node.
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType",
"fluentSetterMethodName": "dedicatedMasterType",
"getterDocumentation": "The instance type for a dedicated master node.
If the service returns an enum value that is not available in the current SDK version, { @link #dedicatedMasterType } will return {
@link ESPartitionInstanceType\#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from
{ @link #dedicatedMasterTypeAsString }.
@return The instance type for a dedicated master node.
@see ESPartitionInstanceType",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "DedicatedMasterType",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "DedicatedMasterType",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "DedicatedMasterType",
"setterDocumentation": "The instance type for a dedicated master node.
@see ESPartitionInstanceType",
"setterMethodName": "setDedicatedMasterType",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "dedicatedMasterType",
  "variableType": "String"
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "dedicatedMasterType",
  "variableType" : "String",
  "documentation" : "<p>The instance type for a dedicated master node.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsSpaceUri" : null
},
"beanStyleGetterMethodName" : "getDedicatedMasterCount",
"beanStyleSetterMethodName" : "setDedicatedMasterCount",
"c2jName" : "DedicatedMasterCount",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>
This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}. When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #dedicatedMasterCount(Integer)}.  
@see #dedicatedMasterCount(Integer)"
  "deprecated" : false,
  "documentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetMethodName" : "dedicatedMasterCount",
  "fluentGetterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>
@returns a reference to this object so that method calls can be chained together.
@see #dedicatedMasterCount(<p>Total number of dedicated master nodes, active and on standby, for the cluster.<</p>"
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DedicatedMasterCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DedicatedMasterCount",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "DedicatedMasterCount",
"sensitive" : false,
"setterDocumentation" : "\nTotal number of dedicated master nodes, active and on standby, for the cluster.\n\n\n@param dedicatedMasterCount Total number of dedicated master nodes, active and on standby, for the cluster.\n",
"setterMethodName" : "setDedicatedMasterCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "dedicatedMasterCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "dedicatedMasterCount",
  "variableType" : "Integer",
  "documentation" : "\nTotal number of dedicated master nodes, active and on standby, for the cluster.\n",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ElasticsearchClusterConfig",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"wrapper" : false,
"ElasticsearchClusterConfigStatus" : {
  "c2jName" : "ElasticsearchClusterConfigStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p> Specifies the configuration status for the specified Elasticsearch domain.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "ElasticsearchClusterConfig"}
Specifies the cluster configuration for the specified Elasticsearch domain.

This is a convenience that creates an instance of the `ElasticsearchClusterConfig.Builder` avoiding the need to create one manually via `ElasticsearchClusterConfig#builder()`.

When the `@link ElasticsearchConsumer#complete()` completes, the `@link ElasticsearchClusterConfig.Builder#build()` is called immediately and its result is passed to `@link ElasticsearchClusterConfig.Builder#options(ElasticsearchClusterConfig)`.

@param options a consumer that will call methods on `@link ElasticsearchClusterConfig.Builder`

@return Returns a reference to this object so that method calls can be chained together.

@see #options(ElasticsearchClusterConfig)
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain. </p>
@param options Specifies the cluster configuration for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "options",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "options",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain. </p>
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null,

"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain. </p>
  "deprecated" : false,
  "documentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain. </p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "status",
  "deprecated" : false,
  "documentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain. </p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "status",
"fluentSetterDocumentation": "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
@param status Specifies the status of the configuration for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName": "status",
"getterDocumentation": "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
@return Specifies the status of the configuration for the specified Elasticsearch domain."

"getterModel": {
  "returnType": "OptionStatus",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "Status",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "Status",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
"simple": false,
"setterDocumentation": "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
@param status Specifies the status of the configuration for the specified Elasticsearch domain.

"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"xmlNameSpaceUri": null
},
"membersAsMap": {
  "Options": {
    "beanStyleGetterMethodName": "getOptions",
    "beanStyleSetterMethodName": "setOptions",
    "c2jName": "Options",
    "c2jShape": "ElasticsearchClusterConfig",
    "defaultConsumerFluentSetterDocumentation": "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p>\nThis is a convenience that creates an instance of the { @link ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via { @link ElasticsearchClusterConfig#builder()}.\n\nWhen the { @link Consumer} completes, { @link ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to { @link #options(ElasticsearchClusterConfig)}\n\n@see #options(ElasticsearchClusterConfig)",
    "deprecated": false,
    "documentation": "<p> Specifies the cluster configuration for the specified Elasticsearch domain. </p>",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "options",
    "fluentSetterDocumentation": "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p>\n\nReturns a reference to this object so that method calls can be chained together.\n\n@see #options(ElasticsearchClusterConfig)",
    "fluentSetterMethodName": "options",
    "getDocumenteration": "<p> Specifies the cluster configuration for the specified Elasticsearch domain. </p>\n@see #options(ElasticsearchClusterConfig)",
    "returnModel": {
      "returnType": "ElasticsearchClusterConfig",
      "documentation": null
    },
    "http": {
      "additionalMarshallingPath": null,
      "additionalUnmarshallingPath": null,
      "flattened": false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p><@param name="options" Specifies the cluster configuration for the specified Elasticsearch domain."",
"setterMethodName" : "setOptions",
"setterModel" : {
   "variableDeclarationType" : "ElasticsearchClusterConfig",
   "variableName" : "options",
   "variableType" : "ElasticsearchClusterConfig",
   "documentation" : null,
   "simpleType" : "ElasticsearchClusterConfig",
   "variableSetterType" : "ElasticsearchClusterConfig"
  
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "ElasticsearchClusterConfig",
   "variableName" : "options",
   "variableType" : "ElasticsearchClusterConfig",
   "documentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p>",
   "simpleType" : "ElasticsearchClusterConfig",
   "variableSetterType" : "ElasticsearchClusterConfig"
  
},
"xmlNameSpaceUri" : null
},
"Status" : {
   "beanStyleGetterMethodName" : "getStatus",
   "beanStyleSetterMethodName" : "setStatus",
   "setterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p>"
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p> This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}. When the {@link Consumer} completes, (@link OptionStatus.Builder#build()) is called immediately and its result is passed to (@link #status(OptionStatus)). @param status a consumer that will call methods on (@link OptionStatus.Builder) @return Returns a reference to this object so that method calls can be chained together.@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p> @param status Specifies the status of the configuration for the specified Elasticsearch domain.@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p> @return Specifies the status of the configuration for the specified Elasticsearch domain.",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
@param status Specifies the status of the configuration for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
],
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getOptions",
  "beanStyleSetterMethodName" : "setOptions",
  "c2jName" : "Options",
  "c2jShape" : "ElasticsearchClusterConfig",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.
  \n  This is a convenience that creates an instance of the \{ @link ElasticsearchClusterConfig.Builder \} avoiding the need to create one manually via \{ @link ElasticsearchClusterConfig#builder() \}.\n  When the \{ @link Consumer \} completes, \{ @link ElasticsearchClusterConfig.Builder#build() \} is called immediately and its result is passed to \{ @link #options(ElasticsearchClusterConfig) \}.\n  @param options a consumer that will call methods on \{ @link ElasticsearchClusterConfig.Builder \}\n  @return Returns a reference to this object so that method calls can be chained together.\n  @see #options(ElasticsearchClusterConfig)",
  "deprecated" : false,
  "documentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p>",
  "enumType" : null,
  "eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.\n@param options Specifies the cluster configuration for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together."",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.\n@return Specifies the cluster configuration for the specified Elasticsearch domain.",
"getterModel" : {
  "returnType" : "ElasticsearchClusterConfig",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.\n@param options Specifies the cluster configuration for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "options",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
],
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ElasticsearchClusterConfig",
"variableName" : "options",
"variableType" : "ElasticsearchClusterConfig",
"documentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p>",
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link OptionStatus.Builder } avoiding the need to create one manually via { @link OptionStatus.Builder#builder() }. When the { @link Consumer } completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link #status(OptionStatus) }. Returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
@param status Specifies the status of the configuration for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)",
"getterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
@return Specifies the status of the configuration for the specified Elasticsearch domain.

@see #status(OptionStatus)",
"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain. </p>
@param status Specifies the status of the configuration for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain. </p>",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
}];
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "ElasticsearchClusterConfigStatus",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
  "variableName" : "elasticsearchClusterConfigStatus",
  "variableType" : "ElasticsearchClusterConfigStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfigStatus",
  "variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"wrapper" : false
},
"ElasticsearchDomainConfig" : {
  "c2jName" : "ElasticsearchDomainConfig",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "The configuration of an Elasticsearch domain.\n  \n  The configuration of an Elasticsearch domain is represented as a JSON object with the following fields:
  \n  - `elasticsearchClusterConfigStatus` (required)
    - Represents the status of the Elasticsearch cluster.
  - `elasticsearchDomainConfig` (required)
    - Represents the configuration of the Elasticsearch domain.
  \n  The `elasticsearchClusterConfigStatus` field contains the status of the Elasticsearch cluster, which includes:
  \n  - `options` (optional)
    - Represents the options for the Elasticsearch cluster.
  - `status` (optional)
    - Represents the status of the Elasticsearch cluster.
  \n  The `elasticsearchDomainConfig` field contains the configuration of the Elasticsearch domain, which includes:
  \n  - `elasticsearchVersion` (optional)
    - Represents the version of the Elasticsearch domain.
      - String of format X.Y to specify version for the Elasticsearch domain.
      - This is a convenience that creates an instance of the `ElasticsearchVersionStatus.Builder` avoiding the need to create one manually via

\n\n"<p>String of format X.Y to specify version for the Elasticsearch domain.\nThis is a convenience that creates an instance of the `ElasticsearchVersionStatus.Builder` avoiding the need to create one manually via\n
\n\n"
When the `@link Consumer` completes, `@link ElasticsearchVersionStatus.Builder#build()` is called immediately and its result is passed to `@link ElasticsearchVersion(ElasticsearchVersionStatus)`. `@param elasticsearchVersion a consumer that will call methods on `@link ElasticsearchVersionStatus.Builder` `@return Returns a reference to this object so that method calls can be chained together.`,

"deprecated" : false,
"documentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>",
"getterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>",
"getterModel" : {
 "returnType" : "ElasticsearchVersionStatus",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "ElasticsearchVersion",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "ElasticsearchVersion",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch
domain.<p>
@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.
",
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
    "variableDeclarationType" : "ElasticsearchVersionStatus",
    "variableName" : "elasticsearchVersion",
    "variableType" : "ElasticsearchVersionStatus",
    "documentation" : null,
    "simpleType" : "ElasticsearchVersionStatus",
    "variableSetterType" : "ElasticsearchVersionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "ElasticsearchVersionStatus",
    "variableName" : "elasticsearchVersion",
    "variableType" : "ElasticsearchVersionStatus",
    "documentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>
",
    "simpleType" : "ElasticsearchVersionStatus",
    "variableSetterType" : "ElasticsearchVersionStatus"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
"beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
"c2jName" : "ElasticsearchClusterConfig",
"c2jShape" : "ElasticsearchClusterConfigStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code>
for the Elasticsearch domain.<p>
This is a convenience that creates an instance of the { @link ElasticsearchClusterConfigStatus.Builder} avoiding the need to create one manually via { @link ElasticsearchClusterConfigStatus#builder()}.

When the { @link Consumer} completes, { @link ElasticsearchClusterConfigStatus.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchClusterConfig(ElasticsearchClusterConfigStatus)}.

@see #elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)
",
"deprecated" : false,
"documentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch
domain.<p>
",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain. 
@param elasticsearchClusterConfig Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain. 
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"getterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain. 
@return Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.",
"getterModel" : {
"returnType" : "ElasticsearchClusterConfigStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"setterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain. 
@param elasticsearchClusterConfig Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain. 
@return Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.",
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchClusterConfigStatus",
"variableName" : "elasticsearchClusterConfig",
"variableType" : "ElasticsearchClusterConfigStatus",
"documentation" : null,
"simpleType" : "ElasticsearchClusterConfigStatus",
"variableSetterType" : "ElasticsearchClusterConfigStatus"
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfigStatus",
  "documentation" : "Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.",
  "simpleType" : "ElasticsearchClusterConfigStatus",
  "variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"xmlNameSpaceUri" : null,
"
  "beanStyleGetterMethodName" : "getEbsOptions",
  "beanStyleSetterMethodName" : "setEbsOptions",
  "c2jName" : "EBSOptions",
  "c2jShape" : "EBSOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "Specifies the <code>EBSOptions</code> for the Elasticsearch domain.

This is a convenience that creates an instance of the {@link EBSOptionsStatus.Builder} avoiding the need to create one manually via {@link EBSOptionsStatus#builder()}. When the Consumer completes, the Builder is called immediately and its result is passed to the Builder's constructor together. See #ebsOptions(EBSOptionsStatus).

"deprecated" : false,
"documentation" : "Specifies the <code>EBSOptions</code> for the Elasticsearch domain.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",
"fluentSetterDocumentation" : "Specifies the <code>EBSOptions</code> for the Elasticsearch domain.

@see #ebsOptions(EBSOptionsStatus)

"getterDocumentation" : "Specifies the <code>EBSOptions</code> for the Elasticsearch domain.

@see #ebsOptions(EBSOptionsStatus)

"getterModel" : {
  "returnType" : "EBSOptionsStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "EBSOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "EBSOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "EBSOptions",
"sensitive": false,
"setterDocumentation": "\<p\>Specifies the &lt;code&gt;EBSOptions&lt;/code&gt; for the Elasticsearch domain.\</p\>\n@\param\ ebsOptions Specifies the &lt;code&gt;EBSOptions&lt;/code&gt; for the Elasticsearch domain.\",
"setterMethodName": "setEbsOptions",
"setterModel": {
  "variableDeclarationType": "EBSOptionsStatus",
  "variableName": "ebsOptions",
  "variableType": "EBSOptionsStatus",
  "documentation": null,
  "simpleType": "EBSOptionsStatus",
  "variableSetterType": "EBSOptionsStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EBSOptionsStatus",
  "variableName": "ebsOptions",
  "variableType": "EBSOptionsStatus",
  "documentation": "\<p\>Specifies the &lt;code&gt;EBSOptions&lt;/code&gt; for the Elasticsearch domain.\</p\>\n@\param\ ebsOptions Specifies the &lt;code&gt;EBSOptions&lt;/code&gt; for the Elasticsearch domain.\",
  "simpleType": "EBSOptionsStatus",
  "variableSetterType": "EBSOptionsStatus"
},
"xmlNameSpaceUri": null
},
{ "beanStyleGetterMethodName": "getAccessPolicies",
"beanStyleSetterMethodName": "setAccessPolicies",
"c2jName": "AccessPolicies"
This is a convenience that creates an instance of the \{@link AccessPoliciesStatus.Builder\} avoiding the need to create one manually via \{@link AccessPoliciesStatus#builder()\}.

When the \{@link Consumer\} completes, \{@link AccessPoliciesStatus.Builder#build()\} is called immediately and its result is passed to \{@link #accessPolicies(AccessPoliciesStatus)\}.

\@param accessPolicies a consumer that will call methods on \{@link AccessPoliciesStatus.Builder\}.
\@return Returns a reference to this object so that method calls can be chained together.
\@see #accessPolicies(AccessPoliciesStatus)

"deprecated" : false,
"documentation" : "IAM access policy as a JSON-formatted string.
This is a convenience that creates an instance of the \{@link AccessPoliciesStatus.Builder\} avoiding the need to create one manually via \{@link AccessPoliciesStatus#builder()\}.

When the \{@link Consumer\} completes, \{@link AccessPoliciesStatus.Builder#build()\} is called immediately and its result is passed to \{@link #accessPolicies(AccessPoliciesStatus)\}.

\@param accessPolicies a consumer that will call methods on \{@link AccessPoliciesStatus.Builder\}.
\@return Returns a reference to this object so that method calls can be chained together.
\@see #accessPolicies(AccessPoliciesStatus)",
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AccessPolicies",
"sensitive" : false,
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : null,
  "simpleType" : "AccessPoliciesStatus",
  "variableSetterType" : "AccessPoliciesStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : "<p>IAM access policy as a JSON-formatted string.</p>
  "simpleType" : "AccessPoliciesStatus",
  "variableSetterType" : "AccessPoliciesStatus"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions",
"c2jShape" : "SnapshotOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link SnapshotOptionsStatus.Builder} avoiding the need to create one manually via { @link SnapshotOptionsStatus#builder()}.
When the { @link Consumer} completes, { @link SnapshotOptionsStatus.Builder#build()} is called immediately and its result is passed to { @link #snapshotOptions(SnapshotOptionsStatus)}.
@param snapshotOptions a consumer that will call methods on { @link SnapshotOptionsStatus.Builder} that return Returns a reference to this object so that method calls can be chained together.
@see #snapshotOptions(SnapshotOptionsStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "snapshotOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
@param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "snapshotOptions",
"getterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
@return Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain."
"getterModel" : {
"returnType" : "SnapshotOptionsStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SnapshotOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SnapshotOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
" sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
@param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain."
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
"variableDeclarationType" : "SnapshotOptionsStatus",
"variableName" : "snapshotOptions",
"variableType" : "SnapshotOptionsStatus",
"documentation" : null,
"simpleType" : "SnapshotOptionsStatus",
"variableSetterType" : "SnapshotOptionsStatus"
<code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.

```json
"getterModel" : {
  "returnType" : "VPCDerivedInfoStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "VPCOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "VPCOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"sensitive" : false,
"setterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.

```

```
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "VPCDerivedInfoStatus",
  "variableName": "vpcOptions",
  "variableType": "VPCDerivedInfoStatus",
  "documentation": "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",
  "simpleType": "VPCDerivedInfoStatus",
  "variableSetterType": "VPCDerivedInfoStatus"
},
"xmlNameSpaceUri": null,
"beanStyleGetterMethodName": "getCognitoOptions",
"beanStyleSetterMethodName": "setCognitoOptions",
"c2jName": "CognitoOptions",
"c2jShape": "CognitoOptionsStatus",
"defaultConsumerFluentSetterDocumentation": "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. This is a convenience that creates an instance of the <code>@link CognitoOptionsStatus.Builder</code> avoiding the need to create one manually via <code>@link CognitoOptionsStatus.Builder#builder()</code>. When the <code>@link Consumer</code> completes, <code>@link CognitoOptionsStatus.Builder#build()</code> is called immediately and its result is passed to <code>@link CognitoOptionsStatus.Builder#builder()</code>. <code>@param cognitoOptions</code> a consumer that will call methods on <code>@link CognitoOptionsStatus.Builder</code> and return a reference to this object so that method calls can be chained together.<code>@see #cognitoOptions(CognitoOptionsStatus)</code>
"deprecated": false,
"documentation": "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "cognitoOptions",
"fluentSetterMethodName": "cognitoOptions",
"fluentSetterDocumentation": "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.<code>@param cognitoOptions</code> The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.<code>@return</code> Returns a reference to this object so that method calls can be chained together.
"getterDocumentation": "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>."
Amazon Cognito Authentication for Kibana</a>.</p>

```javascript
//@return The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.

```

```javascript
"getterModel" : {
  "returnType" : "CognitoOptionsStatus",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "CognitoOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "CognitoOptions",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"isPayload" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "CognitoOptions",

"isBinary" : false,
The <code>CognitoOptions</code> for the specified domain. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html).

This is a convenience that creates an instance of the <code>EncryptionAtRestOptionsStatus.Builder</code> avoiding the need to create one manually via <code>EncryptionAtRestOptionsStatus#builder()</code>. When the <code>Consumer</code> completes, <code>EncryptionAtRestOptionsStatus.Builder#build()</code> is called immediately and its result is passed to <code>EncryptionAtRestOptions(EncryptionAtRestOptionsStatus)</code> a consumer that will call methods on <code>EncryptionAtRestOptionsStatus.Builder</code> so that method calls can be chained together.

```

@link EncryptionAtRestOptionsStatus.Builder
```

When the <code>Consumer</code> completes, <code>EncryptionAtRestOptionsStatus.Builder#build()</code> is called immediately and its result is passed to <code>EncryptionAtRestOptions(EncryptionAtRestOptionsStatus)</code> a consumer that will call methods on <code>EncryptionAtRestOptionsStatus.Builder#build()</code> so that method calls can be chained together.

```

@link EncryptionAtRestOptionsStatus.Builder
```

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@link EncryptionAtRestOptionsStatus.Builder
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@link EncryptionAtRestOptionsStatus.Builder
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@link EncryptionAtRestOptionsStatus.Builder
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@link EncryptionAtRestOptionsStatus.Builder
```

```

@link EncryptionAtRestOptionsStatus.Builder
```

```
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "EncryptionAtRestOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EncryptionAtRestOptions",
"uri" : false
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EncryptionAtRestOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch
domain.</p><p>@param encryptionAtRestOptions Specifies the <code>EncryptionAtRestOptions</code> for the
Elasticsearch domain.</p>",
"setterMethodName" : "setEncryptionAtRestOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptionsStatus",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptionsStatus",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptionsStatus",
  "variableSetterType" : "EncryptionAtRestOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptionsStatus",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptionsStatus",
  "documentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch
domain.</p>",
  "simpleType" : "EncryptionAtRestOptionsStatus",
  "variableSetterType" : "EncryptionAtRestOptionsStatus"
},
"xmlnsNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
"beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
"c2jName" : "NodeToNodeEncryptionOptions",
"c2jShape" : "NodeToNodeEncryptionOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p> This is a convenience that creates an instance of the [{@link NodeToNodeEncryptionOptionsStatus.Builder}] avoiding the need to create one manually via [{@link NodeToNodeEncryptionOptionsStatus#builder()}].

When the [{@link Consumer} completes, [{@link NodeToNodeEncryptionOptionsStatus.Builder#build()}] is called immediately and its result is passed to [{@link NodeToNodeEncryptionOptionsStatus#builder()}].

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>\n@param nodeToNodeEncryptionOptions Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together."
@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)",
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NodeToNodeEncryptionOptions",
"marshallLocationPath" : null,
"marshallLocationRoot" : false,
"mar
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NodeToNodeEncryptionOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"敏感" : false,
"setterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the
Elasticsearch domain.</p>
@param nodeToNodeEncryptionOptions Specifies the
<code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
,".
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptionsStatus",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptionsStatus",
  "variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptionsStatus",
  "documentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>",
  "simpleType" : "NodeToNodeEncryptionOptionsStatus",
  "variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getAdvancedOptions",
"beanStyleSetterMethodName" : "setAdvancedOptions",
"c2jName" : "AdvancedOptions",
"c2jShape" : "AdvancedOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>AdvancedOptions</code> for the
domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/escreateupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.</p>\uiThis is a convenience that creates an instance of the { @link
AdvancedOptionsStatus.Builder} avoiding the need to create one manually via {@link
AdvancedOptionsStatus#builder()}. When the {@link Consumer} completes, {@link
AdvancedOptionsStatus.Builder#build()} is called immediately and its result is passed to {@link
#advancedOptions(AdvancedOptionsStatus)}. Returns a reference to this object so that method calls can be
chained together.

@see advancedOptions(AdvancedOptionsStatus)

"deprecated" : false,

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "advancedOptions",


"getterModel" : {
"returnType" : "AdvancedOptionsStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AdvancedOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AdvancedOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"map" : false,
"mapModel" : null,
"marshallType" : "SDK_POJO",
"name" : "AdvancedOptions",
"sensitive" : false,
@param advancedOptions Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createlistedomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.",
"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "AdvancedOptionsStatus",
  "variableName" : "advancedOptions",
  "variableType" : "AdvancedOptionsStatus",
  "documentation" : null,
  "simpleType" : "AdvancedOptionsStatus",
  "variableSetterType" : "AdvancedOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
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  "variableName" : "advancedOptions",
  "variableType" : "AdvancedOptionsStatus",
  "simpleType" : "AdvancedOptionsStatus",
  "variableSetterType" : "AdvancedOptionsStatus"
},
"xmlNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getLogPublishingOptions",
  "beanStyleSetterMethodName" : "setLogPublishingOptions"
This is a convenience that creates an instance of the \{@link LogPublishingOptionsStatus.Builder\} avoiding the need to create one manually via \{@link LogPublishingOptionsStatus#builder()\}.

When the \{@link Consumer\} completes, \{@link LogPublishingOptionsStatus.Builder#build()\} is called immediately and its result is passed to \{@link LogPublishingOptions(LogPublishingOptionsStatus)\}.

@see #LogPublishingOptions(LogPublishingOptionsStatus)

@method doc: Log publishing options for the given domain.

@method doc: Log publishing options for the given domain.

@method doc: Log publishing options for the given domain.

@method doc: Log publishing options for the given domain.

@method doc: Log publishing options for the given domain.

@method doc: Log publishing options for the given domain.
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "LogPublishingOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Log publishing options for the given domain.</p>
@param logPublishingOptions Log publishing options for the given domain.",
"setterMethodName" : "setLogPublishingOptions",
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  "variableName" : "logPublishingOptions",
  "variableType" : "LogPublishingOptionsStatus",
  "documentation" : null,
  "simpleType" : "LogPublishingOptionsStatus",
  "variableSetterType" : "LogPublishingOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOptionsStatus",
  "variableName" : "logPublishingOptions",
  "variableType" : "LogPublishingOptionsStatus",
  "documentation" : "<p>Log publishing options for the given domain.</p>
  "simpleType" : "LogPublishingOptionsStatus",
  "variableSetterType" : "LogPublishingOptionsStatus"
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"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "AccessPolicies" : {
    "beanStyleGetterMethodName" : "getAccessPolicies",
    "beanStyleSetterMethodName" : "setAccessPolicies",
    "c2jName" : "AccessPolicies",
    "c2jShape" : "AccessPoliciesStatus",
    "defaultConsumerFluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
  "deprecated" : false,
  "documentation" : "<p>IAM access policy as a JSON-formatted string.</p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,}
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
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"fluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param
accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.",
"getterModel" : {
  "returnType" : "AccessPoliciesStatus",
  "documentation" : null
},
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  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AccessPolicies",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AccessPolicies",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AccessPolicies",
"sensitive" : false,
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param
accessPolicies IAM access policy as a JSON-formatted string.
@return IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : null,
  "simpleType" : "AccessPoliciesStatus",
"getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.",
"getterModel" : {
  "returnType" : "AccessPoliciesStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AccessPolicies",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AccessPolicies",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AccessPolicies",
"sensitive" : false,
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param
accessPolicies IAM access policy as a JSON-formatted string.
@return IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : null,
  "simpleType" : "AccessPoliciesStatus",
"variableSetterType" : "AccessPoliciesStatus",
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"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : "<p>IAM access policy as a JSON-formatted string.</p>",
  "simpleType" : "AccessPoliciesStatus",
  "variableSetterType" : "AccessPoliciesStatus"
},
"xmlNameSpaceUri" : null
},
"AdvancedOptions" : {
  "(beanStyleGetterMethodName" : "getAdvancedOptions",
  "beanStyleSetterMethodName" : "setAdvancedOptions",
  "c2jName" : "AdvancedOptions",
  "c2jShape" : "AdvancedOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>S...s the <code>AdvancedOptions</code> for the</p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluuentEnumGetterMethodName" : null,
  "fluuentEnumSetterMethodName" : null,
  "fluuentGetterMethodName" : "advancedOptions",
  "fluuentSetterDocumentation" : ""<p>S...s the <code>AdvancedOptions</code> for the</p>
  "deprecated" : false,
  "documentation" : "<p>S...s the <code>AdvancedOptions</code> for the domain. See</p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluuentEnumGetterMethodName" : null,
  "fluuentEnumSetterMethodName" : null,
  "fluuentGetterMethodName" : "advancedOptions",
  "fluuentSetterDocumentation" : ""<p>S...s the <code>AdvancedOptions</code> for the domain. See</p>
  "xmlNameSpaceUri" : null
}
"fluentSetterMethodName" : "advancedOptions",

@return Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.”,

"getterModel" : {
    "returnType" : "AdvancedOptionsStatus",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "AdvancedOptions",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "AdvancedOptions",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AdvancedOptions",
"sensitive" : false,


@param advancedOptions Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.”,

"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
    "variableDeclarationType" : "AdvancedOptionsStatus"
"variableName" : "advancedOptions",
"variableType" : "AdvancedOptionsStatus",
"documentation" : null,
"simpleType" : "AdvancedOptionsStatus",
"variableSetterType" : "AdvancedOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "AdvancedOptionsStatus",
"variableName" : "advancedOptions",
"variableType" : "AdvancedOptionsStatus",
}
},
"CognitoOptions" : {
"beanStyleGetterMethodName" : "getCognitoOptions",
"beanStyleSetterMethodName" : "setCognitoOptions",
"c2jName" : "CognitoOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. This is a convenience that creates an instance of the <code>{@link CognitoOptionsStatus.Builder}</code> avoiding the need to create one manually via <code>@link CognitoOptionsStatus#builder()</code>. When the <code>@link Consumer</code> completes, <code>@link CognitoOptionsStatus.Builder#build()</code> is called immediately and its result is passed to <code>@link #cognitoOptions(CognitoOptionsStatus)</code>.<br>
@params cognitoOptions a consumer that will call methods on <code>{@link CognitoOptionsStatus.Builder}</code><br>
@return Returns a reference to this object so that method calls can be chained together.<br>
@see #cognitoOptions(CognitoOptionsStatus)
</p>
"deprecated" : false,
"documentation" : "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "getCognitoOptions",
"fluentEnumSetterMethodName" : "setCognitoOptions",
"fluentGetterName" : "cognitoOptions",
"fluentSetterDocumentation" : "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>"
}
"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptionsStatus",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptionsStatus",
  "documentation" : null,
  "simpleType" : "CognitoOptionsStatus",
  "variableSetterType" : "CognitoOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptionsStatus",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptionsStatus",
  "documentation" : "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
  "simpleType" : "CognitoOptionsStatus",
  "variableSetterType" : "CognitoOptionsStatus"
},
"xmlNameSpaceUri" : null
},
"EBSOptions" : {
  "beanStyleGetterMethodName" : "getEbsOptions",
  "beanStyleSetterMethodName" : "setEbsOptions",
  "c2jName" : "EBSOptions",
  "c2jShape" : "EBSOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "Specifies the <code>EBSOptions</code> for the Elasticsearch domain. This is a convenience that creates an instance of the <code>EBSOptionsStatus.Builder</code> avoiding the need to create one manually via <code>EBSOptionsStatus#builder()</code>. When the <code>Consumer</code> completes, <code>EBSOptionsStatus.Builder#build()</code> is called immediately and its result is passed to <code>EBSOptionsStatus.Builder#return()</code>.

@see #ebsOptions(EBSOptionsStatus)",
  "deprecated" : false,
  "documentation" : "Specifies the <code>EBSOptions</code> for the Elasticsearch domain.",
  "endpointDiscoveryId" : null,
  "enumType" : null,
  "eventIdHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "ebsOptions",
  "fluentSetterDocumentation" : "Specifies the <code>EBSOptions</code> for the Elasticsearch domain.

@see #ebsOptions(EBSOptionsStatus)",
  "fluentSetterMethodName" : "ebsOptions"}
"getterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@return Specifies the <code>EBSOptions</code> for the Elasticsearch domain.",

"getterModel" : {
  "returnType" : "EBSOptionsStatus",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "EBSOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "EBSOptions",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"name" : "EBSOptions",

"setterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.",

"setterMethodName" : "setEbsOptions",

"setterModel" : {
  "variableDeclarationType" : "EBSOptionsStatus",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptionsStatus",
  "documentation" : null,
  "simpleType" : "EBSOptionsStatus",
  "variableSetterType" : "EBSOptionsStatus"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "EBSOptionsStatus",
  "variableName" : "ebsOptions",
}
"variableType": "EBSOptionsStatus",
"documentation": "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>",
"simpleType": "EBSOptionsStatus",
"variableSetterType": "EBSOptionsStatus"
],
"xmlNameSpaceUri": null
},

"ElasticsearchClusterConfig": {
"beanStyleGetterMethodName": "getElasticsearchClusterConfig",
"beanStyleSetterMethodName": "setElasticsearchClusterConfig",
"c2jName": "ElasticsearchClusterConfig",
"c2jShape": "ElasticsearchClusterConfigStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>This is a convenience that creates an instance of the { @link ElasticsearchClusterConfigStatus.Builder} avoiding the need to create one manually via { @link ElasticsearchClusterConfigStatus#builder()}. When the { @link Consumer} completes, { @link ElasticsearchClusterConfigStatus.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchClusterConfig#elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)} a consumer that will call methods on { @link ElasticsearchClusterConfigStatus.Builder}.
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)",
"deprecated": false,
"documentation": "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "elasticsearchClusterConfig",
"fluentSetterDocumentation": "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>
@param elasticsearchClusterConfig Specifies the <code>ElasticsearchClusterConfig</code>
@return Returns a reference to this object so that method calls can be chained together.
@see ElasticsearchClusterConfig#elasticsearchClusterConfig(ElasticsearchClusterConfig)",
"getterDocumentation": "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>
@return Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.
@see ElasticsearchClusterConfig#elasticsearchClusterConfig(ElasticsearchClusterConfig)",
"getterModel": {
"returnType": "ElasticsearchClusterConfigStatus",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>
@param elasticsearchClusterConfig Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain."

"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfigStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfigStatus",
  "variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfigStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfigStatus",
  "variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchVersion" : {
  "beanStyleGetterMethodName" : "getElasticsearchVersion",
  "beanStyleSetterMethodName" : "setElasticsearchVersion"
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link ElasticsearchVersionStatus.Builder} avoiding the need to create one manually via { @link ElasticsearchVersionStatus.Builder#builder()}. When the { @link Consumer} completes, { @link ElasticsearchVersionStatus.Builder#build()} is called immediately and its result is passed to { @link #elasticsearchVersion(ElasticsearchVersionStatus)}.

When the { @link Consumer} completes, { @link ElasticsearchVersionStatus.Builder#build()} is called immediately and its result is passed to { @link #elasticsearchVersion(ElasticsearchVersionStatus)}.

@see #elasticsearchVersion(ElasticsearchVersionStatus)",
"deprecated" : false,
"documentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>
@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.
@return String of format X.Y to specify version for the Elasticsearch domain.",
"getterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>
@return String of format X.Y to specify version for the Elasticsearch domain.",
"getterModel" : {
   "returnType" : "ElasticsearchVersionStatus",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "ElasticsearchVersion",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "ElasticsearchVersion",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain."

@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.

"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
    "variableDeclarationType" : "ElasticsearchVersionStatus",
    "variableName" : "elasticsearchVersion",
    "variableType" : "ElasticsearchVersionStatus",
    "documentation" : null,
    "simpleType" : "ElasticsearchVersionStatus",
    "variableSetterType" : "ElasticsearchVersionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "ElasticsearchVersionStatus",
    "variableName" : "elasticsearchVersion",
    "variableType" : "ElasticsearchVersionStatus",
    "documentation" : "String of format X.Y to specify version for the Elasticsearch domain.

@endlink
for the Elasticsearch domain.

This is a convenience that creates an instance of the EncryptionAtRestOptionsStatus.Builder} avoiding the need to create one manually via EncryptionAtRestOptionsStatus#builder()}.\n\nWhen the [Consumer] completes, EncryptionAtRestOptionsBuilder#build() is called immediately and its result is passed to EncryptionAtRestOptions with the following parameters:

@link EncryptionAtRestOptions EncryptionAtRestOptionsStatus\n
Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.

@endlink
when the consumer is called.\n\n@see encryptionAtRestOptions(EncryptionAtRestOptionsStatus)

Returns a reference to this object so that method calls can be chained together.

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"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "encryptionAtRestOptions",
"fluentSetterMethodName" : "encryptionAtRestOptions",
"getterDocumentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.
@param encryptionAtRestOptions Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together."
"getterModel" : {
"returnType" : "EncryptionAtRestOptionsStatus",
"documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "EncryptionAtRestOptions",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "EncryptionAtRestOptions",
 "uri" : false
 },
 "idempotencyToken" : false,
 "isBinary" : false,
 "jsonValue" : false,
 "list" : false,
 "listModel" : null,
 "map" : false,
 "mapModel" : null,
 "marshallingType" : "SDK_POJO",
 "name" : "EncryptionAtRestOptions",
 "sensitive" : false,
 "setterDocumentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.
@param encryptionAtRestOptions Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together."
 "setterMethodName" : "setEncryptionAtRestOptions",
 "setterModel" : {
 "variableDeclarationType" : "EncryptionAtRestOptionsStatus",
"setterModel" : null,
"setterSetterMethodName" : "encryptionAtRestOptions",
"setterSetterSetterMethodName" : "encryptionAtRestOptions"}
"variableName" : "encryptionAtRestOptions",
"variableType" : "EncryptionAtRestOptionsStatus",
"documentation" : null,
"simpleType" : "EncryptionAtRestOptionsStatus",
"variableSetterType" : "EncryptionAtRestOptionsStatus"
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "EncryptionAtRestOptionsStatus",
"variableName" : "encryptionAtRestOptions",
"variableType" : "EncryptionAtRestOptionsStatus",
"documentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>"
"simpleType" : "EncryptionAtRestOptionsStatus",
"variableSetterType" : "EncryptionAtRestOptionsStatus"
"xmlNameSpaceUri" : null
"LogPublishingOptions" : {
"beanStyleGetterMethodName" : "getLogPublishingOptions",
"beanStyleSetterMethodName" : "setLogPublishingOptions",
"c2jName" : "LogPublishingOptions",
"c2jShape" : "LogPublishingOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Log publishing options for the given domain.</p>"
This is a convenience that creates an instance of the {@link LogPublishingOptionsStatus.Builder} avoiding the need to create one manually via {@link LogPublishingOptionsStatus#builder()}. When the {@link Consumer} completes, {@link LogPublishingOptionsStatus.Builder#build()} is called immediately and its result is passed to {@link LogPublishingOptionsStatus#logPublishingOptions(Consumer)} a consumer that will call methods on {@link LogPublishingOptionsStatus.Builder}. Returns a reference to this object so that method calls can be chained together.
"deprecated" : false,
"documentation" : "<p>Log publishing options for the given domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "logPublishingOptions",
"fluentSetterDocumentation" : "<p>Log publishing options for the given domain.</p>"
"returnType" : "LogPublishingOptionsStatus",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LogPublishingOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LogPublishingOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "LogPublishingOptions",
"sensitive" : false,
"setterDocumentation" : "Log publishing options for the given domain.\n@param logPublishingOptions Log publishing options for the given domain.\n@setterMethodName" : "setLogPublishingOptions",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOptionsStatus",
  "variableName" : "logPublishingOptions",
  "variableType" : "LogPublishingOptionsStatus",
  "documentation" : null,
  "simpleType" : "LogPublishingOptionsStatus",
  "variableSetterType" : "LogPublishingOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOptionsStatus",
  "variableName" : "logPublishingOptions",
  "variableType" : "LogPublishingOptionsStatus",
  "documentation" : "Log publishing options for the given domain.\n" simpleType" : "LogPublishingOptionsStatus",
  "variableSetterType" : "LogPublishingOptionsStatus"}
"NodeToNodeEncryptionOptions" : {
    "beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
    "beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
    "c2jName" : "NodeToNodeEncryptionOptions",
    "c2jShape" : "NodeToNodeEncryptionOptionsStatus",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the [ @link NodeToNodeEncryptionOptionsStatus.Builder] avoiding the need to create one manually via [ @link NodeToNodeEncryptionOptionsStatus#builder()].
When the { @link Consumer} completes, [ @link NodeToNodeEncryptionOptionsStatus.Builder#build()] is called immediately and its result is passed to [ @link NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)].

@param nodeToNodeEncryptionOptions a consumer that will call methods on [ @link NodeToNodeEncryptionOptionsStatus.Builder]
@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

"deprecated" : false,
"documentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>
@endparam nodeToNodeEncryptionOptions

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>
@param nodeToNodeEncryptionOptions Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>
@return Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

"getterModel" : {
    "returnType" : "NodeToNodeEncryptionOptionsStatus",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NodeToNodeEncryptionOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NodeToNodeEncryptionOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>\n@param nodeToNodeEncryptionOptions Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.",
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptionsStatus",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptionsStatus",
  "variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptionsStatus",
  "documentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>",
  "simpleType" : "NodeToNodeEncryptionOptionsStatus",
  "variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"xmlNameSpaceUri" : null
},
"SnapshotOptions" : {
  "beanStyleGetterMethodName" : "getSnapshotOptions",
  "beanStyleSetterMethodName" : "setSnapshotOptions",
  "c2jName" : "SnapshotOptions",
  "c2jShape" : "SnapshotOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>",
  "simpleType" : "SnapshotOptionsStatus",
  "variableSetterType" : "SnapshotOptionsStatus"
},
"xmlNameSpaceUri" : null
This is a convenience that creates an instance of the {@link SnapshotOptionsStatus.Builder} avoiding the need to create one manually via {@link SnapshotOptionsStatus#builder()}. When the {@link Consumer} completes, {@link SnapshotOptionsStatus.Builder#build()} is called immediately and its result is passed to {@link #snapshotOptions(SnapshotOptionsStatus)}.

@returns Returns a reference to this object so that method calls can be chained together.

@see #snapshotOptions(SnapshotOptionsStatus)

"deprecated": false,
"documentation": "Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.

When the <code>Consumer</code> completes, <code>SnapshotOptionsStatus#build()</code> is called immediately and its result is passed to <code>#snapshotOptions(SnapshotOptionsStatus)</code>.

@returns Returns a reference to this object so that method calls can be chained together.

@see #snapshotOptions(SnapshotOptionsStatus)"
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
@param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
"variableDeclarationType" : "SnapshotOptionsStatus",
"variableName" : "snapshotOptions",
"variableType" : "SnapshotOptionsStatus",
"documentation" : null,
"simpleType" : "SnapshotOptionsStatus",
"variableSetterType" : "SnapshotOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "SnapshotOptionsStatus",
"variableName" : "snapshotOptions",
"variableType" : "SnapshotOptionsStatus",
"documentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
"simpleType" : "SnapshotOptionsStatus",
"variableSetterType" : "SnapshotOptionsStatus"
},
"xmlNameSpaceUri" : null
},
"VPCOptions" : {
"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCDerivedInfoStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>

This is a convenience that creates an instance of the {@link VPCDerivedInfoStatus.Builder} avoiding the need to create one manually via {@link VPCDerivedInfoStatus.Builder#builder()}. When the {@link Consumer} completes, {@link VPCDerivedInfoStatus.Builder#build()} is called immediately and its result is passed to {@link VpcOptions(VPCDerivedInfoStatus)}. When the param vpcOptions a consumer that will call methods on {@link VPCDerivedInfoStatus.Builder}.
"return Returns a reference to this object so that method calls can be chained together.
@see #vpcOptions(VPCDerivedInfoStatus)",
"deprecated" : false,
"documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
The `<code>VPCOptions</code>` for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html) for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```
@ nutshell

return

/sdk/POJO"

''

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"sensitive" : false,

"setterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.&lt;/p&gt;

@param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",

"setterMethodName" : "setVpcOptions",

"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>",
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},

"xmlNameSpaceUri" : null,

"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getElasticsearchVersion",
    "beanStyleSetterMethodName" : "setElasticsearchVersion",
    "c2jName" : "ElasticsearchVersion",
    "c2jShape" : "ElasticsearchVersionStatus",
    "defaultConsumerFluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.&lt;/p&gt;
This is a convenience that creates an instance of the { @link ElasticsearchVersionStatus.Builder} avoiding the need to create one manually via { @link ElasticsearchVersionStatus#builder()}. &lt;/p&gt;When the { @link Consumer} completes, { @link ElasticsearchVersionStatus.Builder#build()} is called immediately and its result is passed to { @link #elasticsearchVersion(ElasticsearchVersionStatus)}. &lt;/p&gt;@param elasticsearchVersion a consumer that will call methods on { @link ElasticsearchVersionStatus.Builder}. &lt;/p&gt;@return Returns a reference to this object so that method calls can be chained together.&lt;/p&gt;@see #elasticsearchVersion(ElasticsearchVersionStatus)",
    "deprecated" : false,
    "documentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.&lt;/p&gt;",
    "endpointDiscoveryId" : false,
    "enumType" : null,
  }
}
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```
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "\<p\>String of format X.Y to specify version for the Elasticsearch domain.\n@\param\> elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.\","
"getterDocumentation" : "\<p\>String of format X.Y to specify version for the Elasticsearch domain.\n@return String of format X.Y to specify version for the Elasticsearch domain.\",
"getterModel" : {
"returnType" : "ElasticsearchVersionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "\<p\>String of format X.Y to specify version for the Elasticsearch domain.\n@\param\> elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.\n@return String of format X.Y to specify version for the Elasticsearch domain.\",
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchVersionStatus",
"variableName" : "elasticsearchVersion",
"variableType" : "ElasticsearchVersionStatus",
```

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String of format X.Y to specify version for the Elasticsearch domain.
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchClusterConfig",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchClusterConfig",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfigStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfigStatus",
  "variableSetterType" : "ElasticsearchClusterConfigStatus"
}
};
"simpleType" : "ElasticsearchClusterConfigStatus",
"variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain. This is a convenience that creates an instance of the { @link EBSOptionsStatus.Builder} avoiding the need to create one manually via '{@link EBSOptionsStatus#builder()}. When the { @link Consumer} completes, '{@link EBSOptionsStatus.Builder#build()} is called immediately and its result is passed to { @link #ebsOptions(EBSOptionsStatus)}. @param ebsOptions a consumer that will call methods on { @link EBSOptionsStatus.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #ebsOptions(EBSOptionsStatus)="/p",
"deprecated" : false,
"documentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "ebsOptions",
"getterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@return Specifies the <code>EBSOptions</code> for the Elasticsearch domain.
"getterModel" : {
  "returnType" : "EBSOptionsStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "EBSOptions",
  "queryString" : false,
  "statusCode" : false,
  "simpleType" : "ElasticsearchClusterConfigStatus",
  "variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"unmarshallLocationName" : "EBSOptions",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.",
"setterMethodName" : "setEbsOptions",
"setterModel" : {
  "variableDeclarationType" : "EBSOptionsStatus",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptionsStatus",
  "documentation" : null,
  "simpleType" : "EBSOptionsStatus",
  "variableSetterType" : "EBSOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EBSOptionsStatus",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptionsStatus",
  "documentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
"variableSetterType" : "EBSOptionsStatus"
},
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getAccessPolicies",
"beanStyleSetterMethodName" : "setAccessPolicies",
"c2jName" : "AccessPolicies",
"c2jShape" : "AccessPoliciesStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
This is a convenience that creates an instance of the { @link AccessPoliciesStatus.Builder} avoiding the need to create one manually via { @link AccessPoliciesStatus#builder}.

When the { @link Consumer} completes, { @link AccessPoliciesStatus.Builder#build()} is called immediately and its result is passed to { @link AccessPolicies(AccessPoliciesStatus)}.<p@param accessPolicies a consumer that will call methods on { @link AccessPoliciesStatus.Builder}.
@return Returns a reference to this object so that method calls can be chained together.<p>@see #accessPolicies(AccessPoliciesStatus)",
"deprecated" : false,
"documentation" : "<p>IAM access policy as a JSON-formatted string.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param
accessPolicies IAM access policy as a JSON-formatted string.
@return
Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.",
"getterModel" : {
"returnType" : "AccessPoliciesStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AccessPolicies",
"sensitive" : false,
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param
accessPolicies IAM access policy as a JSON-formatted string.
@return
IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {}
"variableDeclarationType" : "AccessPoliciesStatus",
"variableName" : "accessPolicies",
"variableType" : "AccessPoliciesStatus",
"documentation" : null,
"simpleType" : "AccessPoliciesStatus",
"variableSetterType" : "AccessPoliciesStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : null,
  "simpleType" : "AccessPoliciesStatus",
  "variableSetterType" : "AccessPoliciesStatus"
},
"xmlNameSpaceUri" : null
],

"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions",
"c2jShape" : "SnapshotOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link SnapshotOptionsStatus.Builder} avoiding the need to create one manually via { @link SnapshotOptionsStatus#builder()}. When the { @link Consumer} completes, { @link SnapshotOptionsStatus.Builder#build()} is called immediately and its result is passed to { @link #snapshotOptions(SnapshotOptionsStatus)}@param snapshotOptions a consumer that will call methods on { @link SnapshotOptionsStatus.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #snapshotOptions(SnapshotOptionsStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : null,
"fluentSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
"param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.@return Returns a reference to this object so that method calls can be chained together.".,
"fluentSetterMethodName" : "snapshotOptions",
"getterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>@return Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.",
"getterModel" : {
  "returnType" : "SnapshotOptionsStatus",
  "returnTypeValidator" : null,
  "returnTypeValidatorDocumentation" : null,
  "returnTypeValidatorErrorMessage" : null,
  "returnTypeValidatorMethodName" : null,
  "returnTypeValidatorMessage" : null,
  "returnTypeValidatorParameter" : null
},
"getterSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>@return Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.",
"getterSetterMethodName" : "snapshotOptions",
"isCollection" : false,
"isFluent" : true,
"isPublic" : true,
"isUpdate" : false,
"isWebsocket" : false,
"isWrite" : true,
"isXml" : true,
"isXmlNamespace" : null,
"isXmlNamespaceOptional" : false,
"isXmlNamespaceRequired" : true,
"isXmlNamespaceUri" : null,
"isXmlNamespaceUriOptional" : false,
"isXmlNamespaceUriRequired" : true,
"isXmlNamespaceUriUri" : null,
"isXmlNamespaceUriOptional" : false,
"isXmlNamespaceUriRequired" : true,
"isXmlNamespaceUriUri" : null,
"isXmlNamespaceUriOptional" : false,
"isXmlNamespaceUriRequired" : true,
"isXmlNamespaceUriUri" : null,
"documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "SnapshotOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "SnapshotOptions",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "SnapshotOptions",
"sensitive": false,
"setterDocumentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
@param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.",
"setterMethodName": "setSnapshotOptions",
"setterModel": {
  "variableDeclarationType": "SnapshotOptionsStatus",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptionsStatus",
  "documentation": null,
  "simpleType": "SnapshotOptionsStatus",
  "variableSetterType": "SnapshotOptionsStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "SnapshotOptionsStatus",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptionsStatus",
  "documentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>",
  "simpleType": "SnapshotOptionsStatus"}
"variableSetterType": "SnapshotOptionsStatus",
},
"xmlnsNameSpaceUri": null,
},
"beanStyleGetterMethodName": "getVpcOptions",
"beanStyleSetterMethodName": "setVpcOptions",
"c2jName": "VPCOptions",
"c2jShape": "VPCDerivedInfoStatus",
"defaultConsumerFluentSetterDocumentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>This is a convenience that creates an instance of the [VPCDerivedInfoStatus.Builder] avoiding the need to create one manually via [VPCDerivedInfoStatus#builder()].

When the [Consumer] completes, [VPCDerivedInfoStatus.Builder#build()] is called immediately and its result is passed to [VpcOptions(VPCDerivedInfoStatus)@param vpcOptions a consumer that will call methods on [VPCDerivedInfoStatus.Builder])

@returns Returns a reference to this object so that method calls can be chained together.

@see #vpcOptions(VPCDerivedInfoStatus)",
"deprecated": false,
"documentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "vpcOptions",
"fluentSetterDocumentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>
@param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.
@return Returns a reference to this object so that method calls can be chained together.

@see #vpcOptions(VPCDerivedInfoStatus)",
"getterDocumentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>
@return The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.

@returns Returns a reference to this object so that method calls can be chained together.

@see #vpcOptions(VPCDerivedInfoStatus)",
"getterModel": {
"returnType": "VPCDerivedInfoStatus",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"sensitive" : false,
"setterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\n@param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\\n
"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\n\n"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\n\n"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\n\n"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\n\n"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\n\n"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\n\n"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\n\n"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"simpleType": "VPCDerivedInfoStatus",
"variableSetterType": "VPCDerivedInfoStatus"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getCognitoOptions",
"beanStyleSetterMethodName": "setCognitoOptions",
"c2jName": "CognitoOptions",
"c2jShape": "CognitoOptionsStatus",
"defaultConsumerFluentSetterDocumentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.<p>

This is a convenience that creates an instance of the {[link CognitoOptionsStatus.Builder} avoiding the need to create one manually via {[link CognitoOptionsStatus#builder()].

When the {[link CognitoOptionsStatus.Builder#build()]} is called immediately and its result is passed to {[link CognitoOptionsStatus(CognitoOptionsStatus)].

@see #cognitoOptions(CognitoOptionsStatus),

"deprecated": false,
"documentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.<p>

@endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "cognitoOptions",
"fluentSetterMethodName": "cognitoOptions",
"fluentSetterDocumentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.<p>

@see #cognitoOptions(CognitoOptionsStatus),

"getterDocumentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.<p>

"getterModel": {
"returnType": "CognitoOptionsStatus",
"documentation": null
},
"http": {

"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "CognitoOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "CognitoOptions",
"uri": false,
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "CognitoOptions",
"sensitive": false,
"setterDocumentation": "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"setterMethodName": "setCognitoOptions",
"setterModel": {
  "variableDeclarationType": "CognitoOptionsStatus",
  "variableName": "cognitoOptions",
  "variableType": "CognitoOptionsStatus",
  "documentation": null,
  "simpleType": "CognitoOptionsStatus",
  "variableSetterType": "CognitoOptionsStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "CognitoOptionsStatus",
  "variableName": "cognitoOptions",
  "variableType": "CognitoOptionsStatus",
  "documentation": null,
  "simpleType": "CognitoOptionsStatus",
  "variableSetterType": "CognitoOptionsStatus"
},
"marshallLocationName" : "EncryptionAtRestOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EncryptionAtRestOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EncryptionAtRestOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>
@param encryptionAtRestOptions Specifies the <code>EncryptionAtRestOptions</code> for the
Elasticsearch domain.
",
"setterMethodName" : "setEncryptionAtRestOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptionsStatus",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptionsStatus",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptionsStatus",
  "variableSetterType" : "EncryptionAtRestOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptionsStatus",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptionsStatus",
  "documentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch
domain.</p>",
  "simpleType" : "EncryptionAtRestOptionsStatus",
  "variableSetterType" : "EncryptionAtRestOptionsStatus"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
  "beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
  "c2jName" : "NodeToNodeEncryptionOptions",
  "c2jShape" : "NodeToNodeEncryptionOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the
<code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>"
This is a convenience that creates an instance of the { @link NodeToNodeEncryptionOptionsStatus.Builder} avoiding the need to create one
manually via [NodeToNodeEncryptionOptionsStatus#builder()]().

When the [Consumer] completes, [NodeToNodeEncryptionOptionsStatus.Builder#build()] is called immediately and its result is passed to [NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)]().

@throws [IOException]

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.

@deprecated

Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)

Elasticsearch domain.
"setterDocumentation": "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>
@param nodeToNodeEncryptionOptions Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.",
"setterMethodName": "setNodeToNodeEncryptionOptions",
"setterModel": {
  "variableDeclarationType": "NodeToNodeEncryptionOptionsStatus",
  "variableName": "nodeToNodeEncryptionOptions",
  "variableType": "NodeToNodeEncryptionOptionsStatus",
  "documentation": null,
  "simpleType": "NodeToNodeEncryptionOptionsStatus",
  "variableSetterType": "NodeToNodeEncryptionOptionsStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "NodeToNodeEncryptionOptionsStatus",
  "variableName": "nodeToNodeEncryptionOptions",
  "variableType": "NodeToNodeEncryptionOptionsStatus",
  "documentation": "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>",
  "simpleType": "NodeToNodeEncryptionOptionsStatus",
  "variableSetterType": "NodeToNodeEncryptionOptionsStatus"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getAdvancedOptions",
"beanStyleSetterMethodName": "setAdvancedOptions",
"c2jName": "AdvancedOptions",
"c2jShape": "AdvancedOptionsStatus",
\nThis is a convenience that creates an instance of the { @link AdvancedOptionsStatus#builder() } avoiding the need to create one manually via { @link AdvancedOptionsStatus#builder() }.\n\nWhen the { @link Consumer } completes, { @link AdvancedOptionsStatus.Builder#build() } is called immediately and its result is passed to { @link AdvancedOptions(AdvancedOptionsStatus) }.\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #advancedOptions(AdvancedOptionsStatus)",
"deprecated": false,
"documentation": "<p>Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-
createdomain-configure-advanced-options" target="_blank">

Configuring Advanced Options</a> for more information.

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",

@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "advancedOptions",


"getterModel" : {
    "returnType" : "AdvancedOptionsStatus",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "AdvancedOptions",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "AdvancedOptions",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AdvancedOptions",
"sensitive" : false,
@param advancedOptions Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.",

"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "AdvancedOptionsStatus",
  "variableName" : "advancedOptions",
  "variableType" : "AdvancedOptionsStatus",
  "documentation" : null,
  "simpleType" : "AdvancedOptionsStatus",
  "variableSetterType" : "AdvancedOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AdvancedOptionsStatus",
  "variableName" : "advancedOptions",
  "variableType" : "AdvancedOptionsStatus",
",  
  "simpleType" : "AdvancedOptionsStatus",
  
  "variableSetterType" : "AdvancedOptionsStatus"
},
"xmlNameSpaceUri" : null
},
  
  "beanStyleGetterMethodName" : "getLogPublishingOptions",
  "beanStyleSetterMethodName" : "setLogPublishingOptions",
  "c2jName" : "LogPublishingOptions",
  "c2jShape" : "LogPublishingOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Log publishing options for the given domain.</p>
This is a convenience that creates an instance of the {@link LogPublishingOptionsStatus.Builder} avoiding the need to create one manually via {@link LogPublishingOptionsStatus#builder()}. When the {@link Consumer} completes, {@link LogPublishingOptionsStatus.Builder#build()} is called immediately and its result is passed to {@link LogPublishingOptions(LogPublishingOptionsStatus)}. @param logPublishingOptions a consumer that will call methods on {@link LogPublishingOptionsStatus.Builder} @return Returns a reference to this object so that method calls can be chained together.@see #logPublishingOptions(LogPublishingOptionsStatus)"
"deprecated" : false,
"documentation" : "<p>Log publishing options for the given domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "logPublishingOptions",
"fluentSetterDocumentation" : "<p>Log publishing options for the given domain.</p>
@param logPublishingOptions Log publishing options for the given domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "logPublishingOptions",
"getterDocumentation" : "<p>Log publishing options for the given domain.</p>
@return Log publishing options for the given domain.",
"getterModel" : {
  "returnType" : "LogPublishingOptionsStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LogPublishingOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LogPublishingOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "LogPublishingOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Log publishing options for the given domain.</p>
@param logPublishingOptions Log publishing options for the given domain.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setLogPublishingOptions"
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOptionsStatus",
  "variableName" : "logPublishingOptions",
  "variableType" : "LogPublishingOptionsStatus",
  "documentation" : null,
  "simpleType" : "LogPublishingOptionsStatus",
  "variableSetterType" : "LogPublishingOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOptionsStatus",
  "variableName" : "logPublishingOptions",
  "variableType" : "LogPublishingOptionsStatus",
  "documentation" : "Log publishing options for the given domain.
"simpleType" : "LogPublishingOptionsStatus",
  "variableSetterType" : "LogPublishingOptionsStatus"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ElasticsearchDomainConfig",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainConfig",
  "variableName" : "elasticsearchDomainConfig",
  "variableType" : "ElasticsearchDomainConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainConfig",
  "variableSetterType" : "ElasticsearchDomainConfig"
},
"wrapper" : false
},
"ElasticsearchDomainStatus" : {
  "c2jName" : "ElasticsearchDomainStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  }
}.
"deprecated" : false,
"documentation" : "<p>The current status of an Elasticsearch domain.</p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusHeaderValue" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getDomainId",
  "beanStyleSetterMethodName" : "setDomainId",
  "c2jName" : "DomainId",
  "c2jShape" : "DomainId",
  "defaultConsumerFluentSetterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>"="<p>The unique identifier for the specified Elasticsearch domain.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainId",
  "fluentSetterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>"="<p>The unique identifier for the specified Elasticsearch domain.</p>",
  "fluentSetterMethodName" : "domainId",
  "getDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>"="<p>The unique identifier for the specified Elasticsearch domain.</p>",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainId",
"setterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@param

domainId The unique identifier for the specified Elasticsearch domain.",
"setterMethodName" : "setDomainId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainId",
  "variableType" : "String",
  "documentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName"}
The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).

When the `@link Consumer` completes, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #domainName(String)}.

@see #domainName(String)
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the
domains owned by an account within an AWS region. Domain names start with a letter or number and can contain
the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>
@param domainName The name of an
Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region.
Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and -
(hyphen)).",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains
owned by an account within an AWS region. Domain names start with a letter or number and can contain the
following characters: a-z (lowercase), 0-9, and - (hyphen).</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getArn",
"beanStyleSetterMethodName" : "setArn",
"c2jName" : "ARN",
"c2jShape" : "ARN",
"defaultConsumerFluentSetterDocumentation" : "<p>The Amazon resource name (ARN) of an Elasticsearch

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, the value is called immediately and its result is passed to the completion handler.

@see #arn(String), #arn(String)
"marshallLocationName" : "ARN",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ARN",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"sensitive" : false,

\n@param arn The Amazon resource name (ARN) of an Elasticsearch domain. See <a href="http://docs.aws.amazon.com/IAM/latest/UserGuide/index.html?Using_Identifiers.html" target="_blank">Identifiers for IAM Entities</a> in <i>Using AWS Identity and Access Management</i> for more information.</p>",

"setterMethodName" : "setArn",

"setterModel" : {

"variableDeclarationType" : "String",
"variableName" : "arn",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"

},

"simple" : true,

timestampFormat" : null,

"variable" : {

"variableDeclarationType" : "String",
"variableName" : "arn",
"variableType" : "String",
</p>",

"simpleType" : "String",
"variableSetterType" : "String"

},

"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getCreated",}
"beanStyleSetterMethodName" : "setCreated",
"c2jName" : "Created",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

This is a convenience that creates an instance of the [@link Boolean.Builder] avoiding the need to create one manually via [@link Boolean#builder()]. When the [@link Consumer] completes, [@link Boolean.Builder#build()] is called immediately and its result is passed to [@link #created(Boolean)].

@see #created(Boolean)"

"deprecated" : false,
"documentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress."",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "created",
"fluentSetterDocumentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

@see #created(Boolean)"

"getterDocumentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

@see #created(Boolean)"

"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Created",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Created"}
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Created",
"sensitive" : false,
"setterDocumentation" : "The domain creation status. <code>True</code> if the creation of an
Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.
@param created The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete.
@code>False</code> if domain creation is still in progress.
"setterMethodName" : "setCreated",
"setterModel" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "created",
    "variableType" : "Boolean",
    "documentation" : null,
    "simpleType" : "Boolean",
    "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "created",
    "variableType" : "Boolean",
    "documentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch
domain is complete. <code>False</code> if domain creation is still in progress.
", "simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getDeleted",
"beanStyleSetterMethodName" : "setDeleted",
"c2jName" : "Deleted",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "The domain deletion status. <code>True</code> if the creation of an Elasticsearch
domain is complete. <code>False</code> if domain creation is still in progress.
\n@code>False</code> if domain creation is still in progress.
\nThis is a convenience that creates an instance of the \{ @link Boolean.Builder \} avoiding the need to
create one manually via \{ @link Boolean.Builder() \}.
\nWhen the \{ @link Consumer \} completes, \{ @link
Boolean.Builder#build() \} is called immediately and its result is passed to \{ @link #deleted(Boolean)\}.
deleted a consumer that will call methods on \{ @link Boolean.Builder\}`
\n@return Returns a reference to this object so that method calls can be chained together.\n@see #deleted(Boolean)\n",
    "deprecated" : false,
    "documentation" : "\<p\>The domain deletion status. \<code\>True\</code\> if a delete request has been received for the domain but resource cleanup is still in progress. \<code\>False\</code\> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.\</p\>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "deleted",
    "fluentSetterDocumentation" : "\<p\>The domain deletion status. \<code\>True\</code\> if a delete request has been received for the domain but resource cleanup is still in progress. \<code\>False\</code\> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.\</p\>\n@param deleted The domain deletion status. \<code\>True\</code\> if a delete request has been received for the domain but resource cleanup is still in progress. \<code\>False\</code\> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.\n@return Returns a reference to this object so that method calls can be chained together.\n",
    "fluentSetterMethodName" : "deleted",
    "getterDocumentation" : "\<p\>The domain deletion status. \<code\>True\</code\> if a delete request has been received for the domain but resource cleanup is still in progress. \<code\>False\</code\> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.\n@return The domain deletion status. \<code\>True\</code\> if a delete request has been received for the domain but resource cleanup is still in progress. \<code\>False\</code\> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.\n",
    "getterModel" : {
        "returnType" : "Boolean",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "Deleted",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "Deleted",
        "uri" : false
    },
    "idempotencyToken" : false,
The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.

```java
public Boolean getDeleted() {
    return deleted;
}
```

```
public void setDeleted(Boolean value) {
    this.deleted = value;
}
```

When a delete request is received, the domain deletion status is set to <code>True</code>. Resource cleanup is performed, but the status of the domain is retained until the cleanup is complete. Once domain deletion is complete, the status of the domain is no longer returned.

The Elasticsearch domain endpoint that you use to submit index and search requests.

```java
public String getEndpoint() {
    return endpoint;
}
```

```
public void setEndpoint(String value) {
    this.endpoint = value;
}
```

When the <code>setEndpoint</code> method is called, the provided string is used to create an instance of the <code>String.Builder</code> class. The resulting <code>String</code> instance is returned.

This is a convenience that creates an instance of the <code>String.Builder</code> class avoiding the need to create one manually via <code>String#builder()</code>. When the <code>Consumer</code> completes, <code>String.Builder#build()</code> is called immediately and its result is passed to the <code>Endpoint</code> object.

Returns a reference to this object so that method calls can be chained together.

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The Elasticsearch domain endpoint that you use to submit index and search requests.

@<p>param endpoint The Elasticsearch domain endpoint that you use to submit index and search requests.

@<p>return Returns a reference to this object so that method calls can be chained together.

@getterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.

@getterModel" : {"returnType" : "String","documentation" : null},

@http" : {

The Elasticsearch domain endpoint that you use to submit index and search requests.

Example <code>

```java
Map<String, String> endpoints = Map.of('vpc', 'vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com');
```

This is a convenience that creates an instance of the <a>Map<String, String>.Builder</a> avoiding the need to create one manually via <a>Map<String, String>#builder()</a>. When the <a>Map<String, String> .Builder#build()</a> is called immediately and its result is passed to <a>#endpoints(Map<String, String>)</a>.

```
@link Map<String, String> .Builder

@link Map<String, String> .Builder#build()
```

Returns a reference to this object so that method calls can be chained together.

```java
@link Map<String, String> .Builder
```

@link Map<String, String> #endpoints

```
@link Map<String, String> .Builder
```

@link Map<String, String> .Builder#build()

```java
@link Map<String, String> #endpoints
```

```
@link Map<String, String> .Builder
```

@link Map<String, String> .Builder#build()
and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>. <p>

@param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>. Returns a reference to this object so that method calls can be chained together.

"getterDocumentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

"getterModel" : {
   "returnType" : "java.util.Map<String,String>",
   "documentation" : null
},

"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "Endpoints",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "Endpoints",
   "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
   "implType" : "java.util.HashMap",
   "interfaceType" : "java.util.Map",
   "keyLocationName" : "key",
   "keyModel" : {
      "beanStyleGetterMethodName" : "getKey",
      "beanStyleSetterMethodName" : "setKey",
      "c2jName" : "key",
      "c2jShape" : "String",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object."
   }
}"This is
a convenience that creates an instance of the `@link String.Builder` avoiding the need to create one manually via `@link String#builder()`.

When the `@link Consumer` completes, `@link String.Builder#build()` is called immediately and its result is passed to `@link #key(String)`.

@param key a consumer that will call methods on `@link String.Builder`
@return Returns a reference to this object so that method calls can be chained together.

@see #key(String)
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.
@\n\n@param key The new value for the Key property for this object.",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "ServiceUrl",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String.Builder#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called
immediately and its result is passed to {@link #value(String)}.\n\n@\n\n@param value a consumer that will call methods on
{\link String.Builder}\n\n@\n\n@return Returns a reference to this object so that method calls can be chained
together.\n@\n\n@see #value(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.
@\n\n@param value The new value for the Value property for this object.
\n@\n\n@return Returns a reference to this object so that method calls can
be chained together.

"getterDocumentation": "Returns the value of the Value property for this object.\n\n@return The value of the Value property for this object.\n",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "value",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "value",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Value",
"sensitive": false,
"setterDocumentation": "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\n",
"setterMethodName": "setValue",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "value",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "idempotencyToken": false,
  "isBinary": false,
  "jsonValue": false,
  "list": false,
  "listModel": null,
  "map": false,
  "mapModel": null,
  "marshallingType": "STRING",
  "name": "Value",
  "sensitive": false,
"variableDeclarationType" : "String",
"variableName" : "value",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>
}
",
"marshallingType" : "MAP",
"name" : "Endpoints",
"sensitive" : false,
"setterDocumentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>
@param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.",
"setterMethodName" : "setEndpoints",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>
}
",
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>
@param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.",
  "setterMethodName" : "setEndpoints",
  "setterModel" : {
    "variableDeclarationType" : "java.util.Map<String,String>",
    "variableName" : "endpoints",
    "variableType" : "java.util.Map<String,String>",
    "documentation" : null,
    "simpleType" : "Map<String,String>",
    "variableSetterType" : "java.util.Map<String,String>
  }
",
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "java.util.Map<String,String>",
    "variableName" : "endpoints",
    "variableType" : "java.util.Map<String,String>",
    "documentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>
@param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.",
  "setterMethodName" : "setEndpoints",
  "setterModel" : {
    "variableDeclarationType" : "java.util.Map<String,String>",
    "variableName" : "endpoints",
    "variableType" : "java.util.Map<String,String>",
    "documentation" : null,
    "simpleType" : "Map<String,String>",
    "variableSetterType" : "java.util.Map<String,String>
  }
",
  "xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getProcessing",
"beanStyleSetterMethodName" : "setProcessing",
"c2jName" : "Processing",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of the Elasticsearch domain configuration.
<code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

This is a convenience that creates an instance of the [@link Boolean.Builder] avoiding the need to create one manually via [@link Boolean#builder()].

When the [@link Consumer] completes, [@link Boolean.Builder#build()] is called immediately and its result is passed to [@link processing(Boolean)].

@returns Returns a reference to this object so that method calls can be chained together.

@see processing(Boolean)

"deprecated" : false,
"documentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "processing",
"fluentSetterMethodName" : null,
"getterDocumentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

@returns Returns a reference to this object so that method calls can be chained together.

"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Processing",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Processing",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Processing",
"sensitive" : false,

"setterDocumentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

@param processing The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

"setterMethodName" : "setProcessing",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "processing",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "processing",
  "variableType" : "Boolean",
  "documentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getUpgradeProcessing",
"beanStyleSetterMethodName" : "setUpgradeProcessing",
"c2jName" : "UpgradeProcessing",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

This is a convenience that creates an instance of the \{ @link Boolean.Builder \} avoiding the need to create one manually via \{ @link Boolean#builder() \}. When the \{ @link Consumer \} completes, \{ @link Boolean.Builder#build() \} is called immediately and its result is passed to \{ @link #upgradeProcessing(Boolean) \}. @param upgradeProcessing a consumer that will call methods on \{ @link Boolean.Builder \}\n@return Returns a reference to this object so that method calls can be chained together. @see #upgradeProcessing(Boolean)"
"name" : "UpgradeProcessing",
"sensitive" : false,
"setterDocumentation" : "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.</p>
@param upgradeProcessing The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.",
"setterMethodName" : "setUpgradeProcessing",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "upgradeProcessing",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "upgradeProcessing",
  "variableType" : "Boolean",
  "documentation" : "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.</p>
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null,
}
"
"beanStyleGetterMethodName" : "getElasticsearchVersion",
"beanStyleSetterMethodName" : "setElasticsearchVersion",
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object.\n\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #elasticsearchVersion(String)}.\n\n@param elasticsearchVersion a consumer that will call methods on { @link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #elasticsearchVersion(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventoHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object.
@param elasticsearchVersion The new value for the ElasticsearchVersion property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "Returns the value of the ElasticsearchVersion property for this object.
@return The value of the ElasticsearchVersion property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object.
@param elasticsearchVersion The new value for the ElasticsearchVersion property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
This is a convenience that creates an instance of the ElasticsearchClusterConfig.Builder and returns a reference to this object so that method calls can be chained together.

:return Returns a reference to this object so that method calls can be chained together.

@see ElasticsearchClusterConfig(ElasticsearchClusterConfig)

The type and number of instances in the domain cluster.

@endDoc

The type and number of instances in the domain cluster.

@see ElasticsearchClusterConfig(ElasticsearchClusterConfig)

The type and number of instances in the domain cluster.

@see ElasticsearchClusterConfig(ElasticsearchClusterConfig)

The type and number of instances in the domain cluster.

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@see ElasticsearchClusterConfig(ElasticsearchClusterConfig)

The type and number of instances in the domain cluster.

@see ElasticsearchClusterConfig(ElasticsearchClusterConfig)

The type and number of instances in the domain cluster.
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"sensitive" : false,
"setterDocumentation" : "\p>The type and number of instances in the domain cluster.</p>
@param 
elasticsearchClusterConfig The type and number of instances in the domain cluster.
",
"setterMethodName" : "setElasticsearchClusterConfig",

"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},

"simple" : false,
"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : "\p>The type and number of instances in the domain cluster.\)
",
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},

"xmlNameSpaceUri" : null
),

"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions"
This is a convenience that creates an instance of the \{@link EBSOptions.Builder\} avoiding the need to create one manually via \{@link EBSOptions.Builder\}. When the \{@link Consumer\} completes, \{@link EBSOptions.Builder\} is called immediately and its result is passed to \{@link EBSOptions\}.

**Returns**

Returns a reference to this object so that method calls can be chained together.

### FluentSetter

- **@see** EBSOptions(EBSOptions)

- **deprecated**

- **documentation**

- **endpointDiscoveryId**

- **enumType**

- **eventHeader**

- **eventPayload**

- **fluentEnumGetterMethodName**

- **fluentEnumSetterMethodName**

- **fluentGetterMethodName**

- **fluentSetterMethodName**

- **getterDocumentation**

- **getterModel**

- **http**

- **isPayload**

- **isStreaming**

- **location**

- **returnType**

- **documentation**

- **additionalMarshallingPath**

- **additionalUnmarshallingPath**

- **flatned**

- **greedy**

- **header**

- **isPayload**

- **isStreaming**

- **location**


"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "EBSOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EBSOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"敏感" : false,
@param ebsOptions The <code>EBSOptions</code> for the specified domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs" target="_blank">Configuring EBS-based Storage</a> for more information.",
"setterMethodName" : "setEbsOptions",
"setterModel" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
  "documentation" : null,
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
@param ebsOptions The <code>EBSOptions</code> for the specified domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs" target="_blank">Configuring EBS-based Storage</a> for more information.",
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
"c2jName" : "AccessPolicies",
"c2jShape" : "PolicyDocument",
"defaultConsumerFluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via { @link String.Builder() }. When the {@link Consumer} completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #accessPolicies(String) }. @param accessPolicies a consumer that will call methods on { @link String.Builder } @return Returns a reference to this object so that method calls can be chained together. @see #accessPolicies(String)",
"deprecated" : false,
"documentation" : "<p> IAM access policy as a JSON-formatted string. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string. </p>
@param accessPolicies IAM access policy as a JSON-formatted string. @return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p> IAM access policy as a JSON-formatted string. </p>
@return IAM access policy as a JSON-formatted string.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
IAM access policy as a JSON-formatted string.

@code
"setterMethodName": "setAccessPolicies",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "accessPolicies",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "accessPolicies",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getSnapshotOptions",
"beanStyleSetterMethodName": "setSnapshotOptions",
"c2jName": "SnapshotOptions",
"c2jShape": "SnapshotOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of the <code>SnapshotOptions</code>.

This is a convenience that creates an instance of the { @link SnapshotOptions.Builder} avoiding the need to create one manually via { @link SnapshotOptions#builder()}. When the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link #snapshotOptions(SnapshotOptions)}. Returns a reference to this object so that method calls can be chained together.

@deprecated, @return
"documentation": "<p>Specifies the status of the <code>SnapshotOptions</code>.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName" : "snapshotOptions",
"fluentSetterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@param snapshotOptions Specifies the status of the <code>SnapshotOptions</code>
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "snapshotOptions",
"getterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@return Specifies the status of the <code>SnapshotOptions</code>",
"getterModel" : {
"returnType" : "SnapshotOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SnapshotOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SnapshotOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"setterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@param snapshotOptions Specifies the status of the <code>SnapshotOptions</code>
@return Specifies the status of the <code>SnapshotOptions</code>",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
"variableDeclarationType" : "SnapshotOptions",
"variableName" : "snapshotOptions",
"variableType" : "SnapshotOptions",
"documentation" : null,
"simpleType" : "SnapshotOptions",
"variableSetterType" : "SnapshotOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "SnapshotOptions",
    "variableName": "snapshotOptions",
    "variableType": "SnapshotOptions",
    "documentation": "<p>Specifies the status of the <code>SnapshotOptions</code></p>",
    "simpleType": "SnapshotOptions",
    "variableSetterType": "SnapshotOptions"
},
"xmlnsNameSpaceUri": null
},
    "beanStyleGetterMethodName": "getVpcOptions",
    "beanStyleSetterMethodName": "setVpcOptions",
    "c2jName": "VPCOptions",
    "c2jShape": "VPCDerivedInfo",
    "defaultConsumerFluentSetterDocumentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. This is a convenience that creates an instance of the [{link VPCDerivedInfo.Builder} avoiding the need to create one manually via [link VPCDerivedInfo#builder()]. When the [{link Consumer} completes, [{link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to [{link VPCDerivedInfo#builder()}].

When the [{link Consumer} completes, [{link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to [{link VPCDerivedInfo.Builder#build()}].

@see #vpcOptions(VPCDerivedInfo)
"deprecated": false,
    "documentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>
@endp options(VPCDerivedInfo.Builder)\n@returns a reference to this object so that method calls can be chained together.\n@see #vpcOptions(VPCDerivedInfo)",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "vpcOptions",
    "fluentSetterDocumentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>
"returns an object so that method calls can be chained together.
",
    "fluentSetterMethodName": "vpcOptions",
    "getterDocumentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>
@endp options(VPCDerivedInfo.Builder)\n@returns a reference to this object so that method calls can be chained together.
",
    "getterSetterMethodName": "vpcOptions",
    "getVpcOptions": null,
    "setVpcOptions": null,
    "vpcOptions": null,
    "xmlNameSpaceUri": null
}
"getterModel" : {
  "returnType" : "VPCDerivedInfo",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "VPCOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "VPCOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"sensitive" : false,
"setterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",
  "setterMethodName" : "setVpcOptions",
  "setterModel" : {
    "variableDeclarationType" : "VPCDerivedInfo",
    "variableName" : "vpcOptions",
    "variableType" : "VPCDerivedInfo",
    "documentation" : null,
    "simpleType" : "VPCDerivedInfo",
    "variableSetterType" : "VPCDerivedInfo"
  },
  "simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "VPCDerivedInfo",
    "variableName" : "vpcOptions",
    "variableType" : "VPCDerivedInfo",
    "documentation" : "&lt;p&gt;The &lt;code&gt;VPCOptions&lt;/code&gt; for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.&lt;/p&gt;",
    "simpleType" : "VPCDerivedInfo",
    "variableSetterType" : "VPCDerivedInfo"
},
"xmlNameSpaceUri" : null},
{
    "beanStyleGetterMethodName" : "getCognitoOptions",
    "beanStyleSetterMethodName" : "setCognitoOptions",
    "c2jName" : "CognitoOptions",
    "c2jShape" : "CognitoOptions",
    "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The &lt;code&gt;CognitoOptions&lt;/code&gt; for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.&lt;/p&gt;&lt;\nThis is a convenience that creates an instance of the {@link CognitoOptions.Builder} avoiding the need to create one manually via {@link CognitoOptions#builder()}.\n\nWhen the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to {@link CognitoOptions.Builder} a consumer that will call methods on {@link CognitoOptions.Builder} a consumer that will call methods on {@link CognitoOptions}.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #cognitoOptions(CognitoOptions),
    "deprecated" : false,
    "documentation" : "&lt;p&gt;The &lt;code&gt;CognitoOptions&lt;/code&gt; for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.&lt;/p&gt;",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "cognitoOptions",
    "fluentSetterDocumentation" : "&lt;p&gt;The &lt;code&gt;CognitoOptions&lt;/code&gt; for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.&lt;/p&gt;\n\n@returns Returns a reference to this object so that method calls can be chained together.\n"
    "getterDocumentation" : "&lt;p&gt;The &lt;code&gt;CognitoOptions&lt;/code&gt; for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.&lt;/p&gt;\n\n@returns Returns a reference to this object so that method calls can be chained together.\n"}
The `<code>CognitoOptions</code>` for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html"
target="_blank">Amazon Cognito Authentication for Kibana</a>.

- `<getterModel>`: {
  "returnType": "CognitoOptions",
  "documentation": null
},
- `<http>`: {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "CognitoOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "CognitoOptions",
  "uri": false
},
- "idempotencyToken": false,
- "isBinary": false,
- "JsonValue": false,
- "list": false,
- "ListModel": null,
- "map": false,
- "mapModel": null,
- "marshallingType": "SDK_POJO",
- "name": "CognitoOptions",
- "sensitive": false,
- "setterDocumentation": "The `<code>CognitoOptions</code>` for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html"
target="_blank">Amazon Cognito Authentication for Kibana</a>.

- `<setterMethodName>`: "setCognitoOptions",
- `<setterModel>`: {
  "variableDeclarationType": "CognitoOptions",
  "variableName": "cognitoOptions",
  "variableType": "CognitoOptions",
  "documentation": null,
  "simpleType": "CognitoOptions",
  "variableSetterType": "CognitoOptions"
},

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"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>",
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null,
}
  "beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
  "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
  "c2jName" : "EncryptionAtRestOptions",
  "c2jShape" : "EncryptionAtRestOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
This is a convenience that creates an instance of the <a href="#EncryptionAtRestOptions.Builder">EncryptionAtRestOptions.Builder</a> avoiding the need to create one manually via <a href="#EncryptionAtRestOptions#builder()">EncryptionAtRestOptions#builder()</a>. When the <a href="#EncryptionAtRestOptions.Builder#build()">EncryptionAtRestOptions.Builder#build()</a> is called immediately and its result is passed to <a href="#EncryptionAtRestOptions(EncryptionAtRestOptions)#encryptionAtRestOptions(EncryptionAtRestOptions)">EncryptionAtRestOptions(EncryptionAtRestOptions)</a> a consumer that will call methods on <a href="#EncryptionAtRestOptions.Builder">EncryptionAtRestOptions.Builder</a>.

@see #encryptionAtRestOptions(EncryptionAtRestOptions)"
  "deprecated" : false,
  "documentation" : "<p>Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "encryptionAtRestOptions",
  "fluentSetterDocumentation" : "<p>Specifies the status of the <code>EncryptionAtRestOptions</code>. Returns a reference to this object so that method calls can be chained together.</p>"
  "fluentSetterMethodName" : "encryptionAtRestOptions",
  "getterDocumentation" : "<p>Specifies the status of the <code>EncryptionAtRestOptions</code>. Returns the status of the <code>EncryptionAtRestOptions</code>.</p>"
  "getterModel" : {
    "returnType" : "EncryptionAtRestOptions",
    "documentation" : null
  },
  "http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "EncryptionAtRestOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EncryptionAtRestOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EncryptionAtRestOptions",
" sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of the
<code>EncryptionAtRestOptions</code>
</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.
"setterMethodName" : "setEncryptionAtRestOptions",

"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.
</p>",
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
"getterDocumentation": "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.
@return Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.",

"getterModel": {
  "returnType": "NodeToNodeEncryptionOptions",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "NodeToNodeEncryptionOptions",
  "queryString": false,
  "statusCode": false,
"unmarshalLocationName" : "NodeToNodeEncryptionOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the status of the
<code>NodeToNodeEncryptionOptions</code>.</p>
@param nodeToNodeEncryptionOptions Specifies the status
of the <code>NodeToNodeEncryptionOptions</code>.",
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.<p>
"simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getAdvancedOptions",
"beanStyleSetterMethodName" : "setAdvancedOptions",
"c2jName" : "AdvancedOptions",
"c2jShape" : "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the
<code>AdvancedOptions</code></p>
This is a convenience that creates an instance of the {@link
Map<String,String>.Builder} avoiding the need to create one manually via {@link
Map<String,String>#builder()}. When the {@link Consumer} completes, {@link
Map<String,String>.Builder#build()} is called immediately and its result is passed to {@link
#advancedOptions(Map<String,String>)}.<p>@param advancedOptions a consumer that will call methods on {@link
Map<String,String>.Builder}@return Returns a reference to this object so that method calls can be chained
@see #advancedOptions(Map<String,String>)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the status of the &lt;code&gt;AdvancedOptions&lt;/code&gt;&lt;/p&gt;",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "advancedOptions",
  "fluentSetterDocumentation" : "&lt;p&gt;Specifies the status of the &lt;code&gt;AdvancedOptions&lt;/code&gt;&lt;/p&gt;&lt;param name="advancedOptions"&gt;
      Specifies the status of the &lt;code&gt;AdvancedOptions&lt;/code&gt;&lt;/p&gt;&lt;return&gt;
      Returns a reference to this object so that method calls can be chained together.&lt;/p&gt;&lt;/param&gt;&lt;/returns&gt;
      Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
      &lt;/p&gt;&lt;return&gt;
      Specifies the status of the &lt;code&gt;AdvancedOptions&lt;/code&gt;&lt;/p&gt;",
  "getterDocumentation" : "&lt;p&gt;
      Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
      &lt;/p&gt;&lt;returns&gt;
      Specifies the status of the &lt;code&gt;AdvancedOptions&lt;/code&gt;&lt;/returns&gt;",
  "getterModel" : {
    "returnType" : "java.util.Map<String,String>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "AdvancedOptions",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "AdvancedOptions",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : true,
  "mapModel" : {
    "implType" : "java.util.HashMap",
    "interfaceType" : "java.util.Map",
    "keyLocationName" : "key",
    "keyModel" : {
      "implType" : "java.util.HashSet",
      "interfaceType" : "java.util.Set""
"beanStyleGetterMethodName" : "getKey",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "key",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder}().

When the { @link Consumer} completes, { @link String.Builder#build}() is called immediately and its result is passed to { @link #key(String)}.

@see #key(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

@see #key(String)",
"getterDocumentation" : "Returns the value of the Key property for this object.

@return The value of the Key property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #value(String)}. @param value a consumer that will call methods on {@link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #value(String)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "value" : null,
  "valueLocationName" : "value",
  "valueModel" : {
    "beanStyleGetterMethodName" : "getValue",
    "beanStyleSetterMethodName" : "setValue",
    "c2jName" : "value",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #value(String)}. @param value a consumer that will call methods on {@link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #value(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
  }
}
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.
@amp\n@param value The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.\n@return The value of the Value property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "value",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.\n@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String"
}
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "value",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"entryType": "Map.Entry<String, String>",
"templateType": "java.util.Map<String,String>"
},
"marshallingType": "MAP",
"name": "AdvancedOptions",
"sensitive": false,
"setterDocumentation": "<p>Specifies the status of the <code>AdvancedOptions</code></p>
@param advancedOptions Specifies the status of the <code>AdvancedOptions</code>",
"setterMethodName": "setAdvancedOptions",
"setterModel": {
"variableDeclarationType": "java.util.Map<String,String>",
"variableName": "advancedOptions",
"variableType": "java.util.Map<String,String>",
"documentation": null,
"simpleType": "Map<String,String>",
"variableSetterType": "java.util.Map<String,String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.Map<String,String>",
"variableName": "advancedOptions",
"variableType": "java.util.Map<String,String>",
"documentation": "<p>Specifies the status of the <code>AdvancedOptions</code></p>",
"simpleType": "Map<String,String>",
"variableSetterType": "java.util.Map<String,String>"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getLogPublishingOptionsAsStrings",
"beanStyleSetterMethodName": "setLogPublishingOptionsWithStrings",
"c2jName": "LogPublishingOptions",
"c2jShape": "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Log publishing options for the given domain.</p>

This
is a convenience that creates an instance of the `{@link Map<String,LogPublishingOption>.Builder}` avoiding the need to create one manually via `{@link Map<String,LogPublishingOption>#builder()}`. When the `{@link Consumer}` completes, `{@link Map<String,LogPublishingOption>.Builder#build()}` is called immediately and its result is passed to `{@link logPublishingOptionsAsStrings(Map<String,LogPublishingOption>)}`. 

```java
    @param logPublishingOptions a consumer that will call methods on `{@link Map<String,LogPublishingOption>.Builder}`.
    @return Returns a reference to this object so that method calls can be chained together.

    @see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)
```

```xml
   "deprecated" : false,
   "documentation" : "<p>Log publishing options for the given domain.</p>",
   "endpointDiscoveryId" : false,
   "enumType" : null,
   "eventHeader" : false,
   "eventPayload" : false,
   "fluentEnumGetterMethodName" : "logPublishingOptions",
   "fluentEnumSetterMethodName" : "logPublishingOptions",
   "fluentGetterMethodName" : "logPublishingOptionsAsStrings",
   "fluentSetterDocumentation" : "<p>Log publishing options for the given domain.</p>
   @param logPublishingOptions Log publishing options for the given domain.
   @return Returns a reference to this object so that method calls can be chained together.

   @see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)
```
"map": true,
"mapModel": {
  "implType": "java.util.HashMap",
  "interfaceType": "java.util.Map",
  "keyLocationName": "key",
  "keyModel": {
    "beanStyleGetterMethodName": "getKeyAsString",
    "beanStyleSetterMethodName": "setKey",
    "c2jName": "key",
    "c2jShape": "LogType",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #keyAsString(String) }. @param key a consumer that will call methods on { @link String.Builder } @return Returns a reference to this object so that method calls can be chained together. @see LogType",
    "deprecated": false,
    "documentation": "",
    "endpointDiscoveryId": false,
    "enumType": "LogType",
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": "key",
    "fluentEnumSetterMethodName": "key",
    "fluentGetterMethodName": "keyAsString",
    "fluentSetterDocumentation": "Sets the value of the Key property for this object.

The new value for the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, { @link #key } will return { @link LogType#UNKNOWN_TO_SDK_VERSION }. The raw value returned by the service is available from { @link #keyAsString }.

@see LogType",
    "fluentSetterMethodName": "key",
    "getterDocumentation": "Returns the value of the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, { @link #key } will return { @link LogType#UNKNOWN_TO_SDK_VERSION }. The raw value returned by the service is available from { @link #keyAsString }.

@see LogType",
    "getterModel": {
      "returnType": "String",
      "documentation": null
    },
    "http": {
      "additionalMarshallingPath": null,
      "additionalUnmarshallingPath": null,
      "flattened": false,
      "greedy": false,
      "header": false,
      "isPayload": false,
      "isStreaming": false,
      "location": null,
      "marshallLocation": "PAYLOAD",
      "marshallLocationName": "key",
      "marshallingLocation": "PAYLOAD",
      "marshallingLocationName": "key",
      "marshallingType": "java.util.HashMap",
      "location": "PAYLOAD",
      "marshallLocation": "PAYLOAD",
      "marshallLocationName": "key",
      "marshallLocation": null,
      "marshallLocationName": null
    }
  }
}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : false,
"map" : false,
"mapModel" : null,
"marshall" : false,
"marshallType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the \{ @link LogPublishingOption.Builder \} avoiding the need to create one manually via \{ @link LogPublishingOption#builder() \}. When the \{ @link Consumer \} completes, \{ @link LogPublishingOption.Builder#build() \} is called immediately and its result is passed to \{ @link
#value(LogPublishingOption)\n@param value a consumer that will call methods on \nLogPublishingOption.Builder\n@return Returns a reference to this object so that method calls can be chained
together.\n@see #value(LogPublishingOption),
"deprecated": false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetMethodName": "value",
"fluentSetterDocumentation": "Sets the value of the Value property for this object.\n\n@see #value(LogPublishingOption).",
"fluentSetterMethodName": "value",
"getterDocumentation": "Returns the value of the Value property for this object.\n\n@see #value(LogPublishingOption).",
"getterModel": {
  "returnType": "LogPublishingOption",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "value",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "value",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Value",
"sensitive": false,
"variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri" : null
],
{
"beanStyleGetterMethodName" : "getServiceSoftwareOptions",
"beanStyleSetterMethodName" : "setServiceSoftwareOptions",
"c2jName" : "ServiceSoftwareOptions",
"c2jShape" : "ServiceSoftwareOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.

This is a convenience that creates an instance of the [link ServiceSoftwareOptions.Builder] avoiding the need to create one manually via [link ServiceSoftwareOptions.Builder#builder()].

When the [link Consumer] completes, [link ServiceSoftwareOptions.Builder#build()] is called immediately and its result is passed to [link #serviceSoftwareOptions(ServiceSoftwareOptions)].

@see #serviceSoftwareOptions(ServiceSoftwareOptions)"
"deprecated" : false,
"documentation" : "The current status of the Elasticsearch domain's service software.

When the [link Consumer] completes, [link ServiceSoftwareOptions.Builder#build()] is called immediately and its result is passed to [link #serviceSoftwareOptions(ServiceSoftwareOptions)].

@see #serviceSoftwareOptions(ServiceSoftwareOptions)"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "serviceSoftwareOptions",
"fluentSetterDocumentation" : "The current status of the Elasticsearch domain's service software.

The current status of the Elasticsearch domain's service software.

@see #serviceSoftwareOptions(ServiceSoftwareOptions)"
"getterDocumentation" : "The current status of the Elasticsearch domain's service software.

The current status of the Elasticsearch domain's service software.

@see #serviceSoftwareOptions(ServiceSoftwareOptions)"
"getterModel" : {
"returnType" : "ServiceSoftwareOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ServiceSoftwareOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ServiceSoftwareOptions",}
The current status of the Elasticsearch domain's service software.

### setterMethodName
`setServiceSoftwareOptions`

### setterModel
```java
{
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
}
```

### simple
false

### timestampFormat
null

### variable
```java
{
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
}
```

### xmlNameSpaceUri
null

### membersAsMap
```java
{
  "ARN" : {
    "beanStyleGetterMethodName" : "getArn",
    "beanStyleSetterMethodName" : "setArn",
    "c2jName" : "ARN",
    "c2jShape" : "ARN",
    "defaultConsumerFluentSetterDocumentation" : "The Amazon resource name (ARN) of an Elasticsearch domain. See <a href="http://docs.aws.amazon.com/IAM/latest/UserGuide/index.html?Using_Identifiers.html" target="_blank">Identifiers for IAM Entities</a> in <i>Using AWS Identity and Access Management</i> for more information."\n\nThis is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder()].\n\nWhen the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [arn(String)].\n\n@param arn a consumer that will call methods on [String.Builder]\n\n@returns Returns a reference to this object so that
```
method calls can be chained together.<n> \n@see \#arn(String)

"deprecated" : false,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "arn",
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ARN",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ARN",
    "uri" : false
}"}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"sensitive" : false,
",
"setterMethodName" : "setArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"AccessPolicies" : {
  "beanStyleGetterMethodName" : "getAccessPolicies",
  "beanStyleSetterMethodName" : "setAccessPolicies",
  "c2jName" : "AccessPolicies",
  "c2jShape" : "PolicyDocument",
  "defaultConsumerFluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string. 
</p>
\u This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create..."}
one manually via `String#builder()`. When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `accessPolicies(String)`. `param accessPolicies` a consumer that will call methods on `String.Builder`.

`return` Returns a reference to this object so that method calls can be chained together.

`@see accessPolicies(String)`

"deprecated": false,
"documentation": "<p> IAM access policy as a JSON-formatted string.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "accessPolicies",
"fluentSetterDocumentation": "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName": "accessPolicies",
"getterDocumentation": "<p> IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.

"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayLoad": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "AccessPolicies",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "AccessPolicies",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "AccessPolicies"
"setterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies
IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "accessPolicies",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "accessPolicies",
  "variableType" : "String",
  "documentation" : "<p> IAM access policy as a JSON-formatted string.</p>
"simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"AdvancedOptions" : {
  "beanStyleGetterMethodName" : "getAdvancedOptions",
  "beanStyleSetterMethodName" : "setAdvancedOptions",
  "c2jName" : "AdvancedOptions",
  "c2jShape" : "AdvancedOptions",
  "defaultValueImplementationDocumentation" : "<p>Specifies the status of the
<code>AdvancedOptions</code></p>
This is a convenience that creates an instance of the {
@link
Map<String,String>.Builder} avoiding the need to create one manually via {
@link
Map<String,String>#builder()}.<p>When the {
@link
Consumer} completes, {
@link
Map<String,String>.Builder#build()} is called immediately and its result is passed to {
@link
#advancedOptions(Map<String,String>)}.<p>@param advancedOptions a consumer that will call methods on {
@link
Map<String,String>.Builder} un@return Returns a reference to this object so that method calls can be chained
together.un@see #advancedOptions(Map<String,String>)
"deprecated" : false,
"documentation" : "<p>Specifies the status of the <code>AdvancedOptions</code></p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventoHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentSetterMethodName" : "advancedOptions",
"fluentSetterDocumentation" : "<p>Specifies the status of the
<code>AdvancedOptions</code></p>
@param advancedOptions Specifies the status of the
<code>AdvancedOptions</code>@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "advancedOptions",
"getterDocumentation" : "<p>Specifies the status of the<br>&lt;code>AdvancedOptions&lt;/code&gt;</p>

Attempts to modify the collection returned by this method will result in an <i>UnsupportedOperationException</i>.

<code>AdvancedOptions</code>@return Specifies the status of the

"getterModel" : {
  "returnType" : "java.util.Map&lt;String,String&gt;",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AdvancedOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AdvancedOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via{@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to{@link #key(String)}.\n\n@param key a consumer that will call methods on{@link String.Builder}\n@see #key(String)"
},
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via{@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to{@link #key(String)}.\n\n@param key a consumer that will call methods on{@link String.Builder}\n@see #key(String)"}
"deprecated" : false,
"documentation" : "",
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"enumType" : null,
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"eventPayload" : false,
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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n@\n@param key The new value for the Key property for this object.\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.\n@\n@return The value of the Key property for this object.\n",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
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"http" : {
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  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : false,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.\n@\n@param key The new value for the Key property for this object.\n",
"setterMethodName" : "setKey"
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
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  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.
This is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create
one manually via \{ @link String#builder() \}. When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link String#value(String) \}.\n\n@see #value(String)",
  "deprecated" : false,
  "documentation" : ":",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.
\n@see #value(String)",
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.
\n@see #value(String)",
  "getterModel" : 
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"returnType": "String",
"documentation": null
},
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"additionalUnmarshallingPath": null,
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"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
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"marshallLocationName": "value",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "value",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Value",
"sensitive": false,
"setterDocumentation": "Sets the value of the Value property for this object.\n\n@para\n\n\n\n\n@param value The new value for the Value property for this object.\n\n\nsetterMethodName": "setValue",
"setterModel": {
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"variableName": "value",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "value",
"variableType": "String",
"documentation": ",",
"simpleType": "String"}
"variableSetterType" : "String",
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>
},
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the status of the <code>AdvancedOptions</code></p>
@param advancedOptions Specifies the status of the <code>AdvancedOptions</code>",
"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "<p>Specifies the status of the <code>AdvancedOptions</code></p>",
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>
},
"xmlNameSpaceUri" : null,

"CognitoOptions" : {
  "beanStyleGetterMethodName" : "getCognitoOptions",
  "beanStyleSetterMethodName" : "setCognitoOptions",
  "c2jName" : "CognitoOptions",
  "c2jShape" : "CognitoOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.<p>/n</p>/nThis is a convenience that creates an instance of the { @link CognitoOptions.Builder} avoiding the need to create one manually via { @link CognitoOptions.Builder#builder()}. When the { @link CognitoOptions.Builder#build()} is called immediately and its result is passed to { @link CognitoOptions#builder()} this consumer will call methods on { @link CognitoOptions.Builder#return Returns a reference to this object so that method calls can be chained together.}@param cognitoOptions a consumer that will call methods on { @link CognitoOptions.Builder#return Returns a reference to this object so that method calls can be chained together.}@see #cognitoOptions(CognitoOptions)",
  "deprecated" : false,
"documentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. </p>",

"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "cognitoOptions",
"fluentSetterDocumentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. </p>
@param cognitoOptions The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. 
@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName": "cognitoOptions",

"getterDocumentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. </p>
@return The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. 
",

"getterModel": {
  "returnType": "CognitoOptions",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "CognitoOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "CognitoOptions",
  "uri": false
},

"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"sensitive" : false,
"setterDocumentation" : "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"setterMethodName" : "setCognitoOptions",
"setterModel" : {
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    "variableName" : "cognitoOptions",
    "variableType" : "CognitoOptions",
    "documentation" : null,
    "simpleType" : "CognitoOptions",
    "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
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    "variableName" : "cognitoOptions",
    "variableType" : "CognitoOptions",
    "documentation" : "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
    "simpleType" : "CognitoOptions",
    "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
"Created" : {
    "beanStyleGetterMethodName" : "getCreated",
    "beanStyleSetterMethodName" : "setCreated",
    "c2jName" : "Created",
    "c2jShape" : "Boolean",
    "defaultConsumerFluentSetterDocumentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.",
    "deprecated" : false,
"documentation" : "<p>The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethod" : "created",
"fluentSetterDocumentation" : "<p>The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.</p>
@param created
The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "created",
"getterDocumentation" : "<p>The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.</p>
@return The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.
@returns
The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.",
"getterModel" : {
    "returnType" : "Boolean",
    "documentation" : null
},
"http" : {
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    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Created",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Created",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Created"
"sensitive" : false,
"setterDocumentation" : "<p>The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.</p>
@param created The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.",
"setterMethodName" : "setCreated",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "created",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "created",
  "variableType" : "Boolean",
  "documentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.<p>
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"Deleted" : {
  "beanStyleGetterMethodName" : "getDeleted",
  "beanStyleSetterMethodName" : "setDeleted",
  "c2jName" : "Deleted",
  "c2jShape" : "Boolean",
  "documentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>

This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean#builder()}. When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link deleted(Boolean)}.<p>\n@param deleted a consumer that will call methods on { @link Boolean.Builder}\n@return Returns a reference to this object so that method calls can be chained together.</p>
"deprecated" : false,
"documentation" : "The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.""}
The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.

```java
@Param
deleted
```

Returns a reference to this object so that method calls can be chained together.

The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.

```java
@return
```

The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.

@param deleted
The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.

```
"setterMethodName" : "setDeleted",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "deleted",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "deleted",
  "variableType" : "Boolean",
  "documentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"DomainId" : {
  "beanStyleGetterMethodName" : "getDomainId",
  "beanStyleSetterMethodName" : "setDomainId",
  "c2jName" : "DomainId",
  "c2jShape" : "DomainId",
  "defaultConsumerFluentSetterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainId(String)}.<p@return>Returns a reference to this object so that method calls can be chained together.</p><@see #domainId(String)"
  "deprecated" : false,
  "documentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetMethodName" : null,
  "fluentMethodName" : "domainId",
  "fluentSetterMethodName" : null
},
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"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethodName" : "domainId",
"fluentSetterMethodName" : null,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethodName" : "domainId",
"fluentSetterMethodName" : null,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethodname" : "domainId",
"fluentSetterMethodName" : null,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethodname" : "domainId",
"fluentSetterMethodName" : null,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethodname" : "domainId",
"fluentSetterMethodName" : null,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentSetterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@param domainId The unique identifier for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainId",
"getterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@return The unique identifier for the specified Elasticsearch domain."

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainId",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainId",
"sensitive" : false,

"setterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@param domainId The unique identifier for the specified Elasticsearch domain.

"setterMethodName" : "setDomainId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainId",
  "variableType": "String",
  "documentation": "The unique identifier for the specified Elasticsearch domain.\n  \n  simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"DomainName": {
  "beanStyleGetterMethodName": "getDomainName",
  "beanStyleSetterMethodName": "setDomainName",
  "c2jName": "DomainName",
  "c2jShape": "DomainName",
  "defaultValue": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>\\n  \n  <p>This is a convenience that creates an instance of the \n  \n  When the \n  \n  immediately and its result is passed to \n  \n  \\
  \n  \\
  Returns a reference to this object so that method calls can be chained together.\\n  \n  Returns a reference to this object so that method calls can be chained together.\\n  \n  Returns a reference to this object so that method calls can be chained together.\\n  \n  Returns a reference to this object so that method calls can be chained together.
  "\n  "deprecated": false,
  "documentation": "The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>\\n  \\
  \\
  \\
  Returns a reference to this object so that method calls can be chained together.
  \n  Returns a reference to this object so that method calls can be chained together.
  "\n  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "domainName",
  "fluentSetterMethodName": "domainName",
  "defaultConsumerFluentSetterDocumentation": "The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
  \\
  \\
  Returns a reference to this object so that method calls can be chained together.\\n  \n  Returns a reference to this object so that method calls can be chained together.\\n  \n  Returns a reference to this object so that method calls can be chained together.
  \n  Returns a reference to this object so that method calls can be chained together.
  "\n  "getterDocumentation": "The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
  \\
  \\
  Returns a reference to this object so that method calls can be chained together.
  \n  Returns a reference to this object so that method calls can be chained together.
  "\n  "getterModel": {
"returnType" : "String",
"documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,

"setterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>\n@param domainName The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",

"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"}
},

"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"}
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"EBSOptions" : {
"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "The <code>EBSOptions</code> for the specified domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs" target="_blank">Configuring EBS-based Storage</a> for more information. This is a convenience that creates an instance of the <code>EBSOptions.Builder</code> avoiding the need to create one manually via <code>EBSOptions.Builder#build()</code>. When the <code>EBSOptions.Builder#build()</code> is called immediately and its result is passed to <code>#ebsOptions(EBSOptions)</code>

This <code>EBSOptions</code> is then returned. Returns a reference to this object so that method calls can be chained together.

@see #ebsOptions(EBSOptions)
",
"deprecated" : false,

This <code>EBSOptions</code> is then returned. Returns a reference to this object so that method calls can be chained together.

@see #ebsOptions(EBSOptions)
",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",
"fluentSetterMethodName" : "ebsOptions",

This <code>EBSOptions</code> is then returned. Returns a reference to this object so that method calls can be chained together.

@see #ebsOptions(EBSOptions)
",

This <code>EBSOptions</code> is then returned. Returns a reference to this object so that method calls can be chained together.

@see #ebsOptions(EBSOptions)
"}
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createdomain-configure-ebs

Configuring EBS-based Storage</a> for more information.

"getterModel": {
  "returnType": "EBSOptions",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "EBSOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "EBSOptions",
  "uri": false
},

"idempotencyToken": false,

"isBinary": false,

"jsonValue": false,

"list": false,

"listModel": null,

"map": false,

"mapModel": null,

"marshallingType": "SDK_POJO",

"name": "EBSOptions",


"setterMethodName": "setEbsOptions",

"setterModel": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "ebsOptions",
  "variableType": "EBSOptions",
  "documentation": null,
  "simpleType": "EBSOptions",
  "variableSetterType": "EBSOptions"
},

"simple": false,

"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "ebsOptions",
  "variableType": "EBSOptions",
  "simpleType": "EBSOptions",
  "variableSetterType": "EBSOptions"
},
"xmlNameSpaceUri": null
},
"ElasticsearchClusterConfig": {
  "beanStyleGetterMethodName": "getElasticsearchClusterConfig",
  "beanStyleSetterMethodName": "setElasticsearchClusterConfig",
  "c2jName": "ElasticsearchClusterConfig",
  "c2jShape": "ElasticsearchClusterConfig",
  "defaultConsumerFluentSetterDocumentation": "<p>The type and number of instances in the domain cluster.</p>

This is a convenience that creates an instance of the {@link ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via {@link ElasticsearchClusterConfig.Builder#builder()}. When the {@link Consumer} completes, {@link ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to a consumer that will call methods on a consumer so that method calls can be chained together.

@see #elasticsearchClusterConfig(ElasticsearchClusterConfig)",
  "deprecated": false,
  "documentation": "<p>The type and number of instances in the domain cluster.</p>",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "elasticsearchClusterConfig",
  "fluentSetterDocumentation": "<p>The type and number of instances in the domain cluster.</p>

@return Returns a reference to this object so that method calls can be chained together.

@see #elasticsearchClusterConfig(ElasticsearchClusterConfig)",
  "getterDocumentation": "<p>The type and number of instances in the domain cluster.</p>

@return The type and number of instances in the domain cluster.

@see #elasticsearchClusterConfig(ElasticsearchClusterConfig)",
  "getterModel": {
    "returnType": "ElasticsearchClusterConfig",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "ElasticsearchClusterConfig",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ElasticsearchClusterConfig",
"uri": false,
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "ElasticsearchClusterConfig",
"sensitive": false,
"setterDocumentation": "<p>The type and number of instances in the domain cluster.</p>
@param
elasticsearchClusterConfig The type and number of instances in the domain cluster.",
"setterMethodName": "setElasticsearchClusterConfig",
"setterModel": {
  "variableDeclarationType": "ElasticsearchClusterConfig",
  "variableName": "elasticsearchClusterConfig",
  "variableType": "ElasticsearchClusterConfig",
  "documentation": null,
  "simpleType": "ElasticsearchClusterConfig",
  "variableSetterType": "ElasticsearchClusterConfig"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ElasticsearchClusterConfig",
  "variableName": "elasticsearchClusterConfig",
  "variableType": "ElasticsearchClusterConfig",
  "documentation": "<p>The type and number of instances in the domain cluster.</p>",
  "simpleType": "ElasticsearchClusterConfig",
  "variableSetterType": "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri": null
},
"ElasticsearchVersion": {
  "beanStyleGetterMethodName": "getElasticsearchVersion",
  "beanStyleSetterMethodName": "setElasticsearchVersion",}
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object. This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String.Builder(String)]. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link ElasticsearchVersion(String)].

@see #elasticsearchVersion(String)",

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object.

@see #elasticsearchVersion(String)",

"getterDocumentation" : "Returns a reference to this object so that method calls can be chained together.

@see #elasticsearchVersion(String)",

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
}

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchVersion",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object.
@param elasticsearchVersion The new value for the ElasticsearchVersion property for this object.",
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "elasticsearchVersion",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "elasticsearchVersion",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
}

"EncryptionAtRestOptions" : {
    "beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
    "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
    "c2jName" : "EncryptionAtRestOptions",
    "c2jShape" : "EncryptionAtRestOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>. </p>
This is a convenience that creates an instance of the [EncryptionAtRestOptions.Builder] avoiding the need to create one manually via [EncryptionAtRestOptions#builder()].

When the [@link Consumer] completes, [@link EncryptionAtRestOptions.Builder#build()] is called immediately and its result is passed to [EncryptionAtRestOptions(EncryptionAtRestOptions)].

@see EncryptionAtRestOptions(EncryptionAtRestOptions)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "encryptionAtRestOptions",
"fluentSetterDocumentation" : "<p> Specifies the status of the
<code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>. @return Returns a reference to this object so that method calls can be
chained together.",
"fluentSetterMethodName" : "encryptionAtRestOptions",
"getterDocumentation" : "<p> Specifies the status of the
<code>EncryptionAtRestOptions</code>. </p>@return Specifies the status of the
<code>EncryptionAtRestOptions</code>.",
"getterModel" : {
  "returnType" : "EncryptionAtRestOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "EncryptionAtRestOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "EncryptionAtRestOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EncryptionAtRestOptions",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of the
<code>EncryptionAtRestOptions</code>. </p>@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>. @return Specifies the status of the
<code>EncryptionAtRestOptions</code>",
"setterMethodName" : "setEncryptionAtRestOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
}
"variableType" : "EncryptionAtRestOptions",
"documentation" : null,
"simpleType" : "EncryptionAtRestOptions",
"variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "EncryptionAtRestOptions",
"variableName" : "encryptionAtRestOptions",
"variableType" : "EncryptionAtRestOptions",
"documentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
"simpleType" : "EncryptionAtRestOptions",
"variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
},
"Endpoint" : {
"beanStyleGetterMethodName" : "getEndpoint",
"beanStyleSetterMethodName" : "setEndpoint",
"c2jName" : "Endpoint",
"c2jShape" : "ServiceUrl",
"defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link endpoint(String)}.\n@returns a reference to this object so that method calls can be chained together.\n@see #endpoint(String)",
"deprecated" : false,
"documentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoint",
"fluentSetterMethodName" : "endpoint",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
@returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
@returns The Elasticsearch domain endpoint that you use to submit index and search requests.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Endpoint",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Endpoint",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Endpoint",
"sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
@param endpoint The Elasticsearch domain endpoint that you use to submit index and search requests.",
"setterMethodName" : "setEndpoint",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoint",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoint",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
"xmlNameSpaceUri" : null,
"Endpoints" : {
  "beanStyleGetterMethodName" : "getEndpoints",
  "beanStyleSetterMethodName" : "setEndpoints",
  "c2jName" : "Endpoints",
  "c2jShape" : "EndpointsMap",
  "defaultConsumerFluentSetterDocumentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc',vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.<p>This is a convenience that creates an instance of the { @link Map<String,String>.Builder} avoiding the need to create one manually via { @link Map<String,String>#builder()}.<br>When the { @link Consumer} completes, { @link Map<String,String>.Builder#build()} is called immediately and its result is passed to { @link #endpoints(Map<String,String>)}.<br>@param endpoints a consumer that will call methods on { @link Map<String,String>.Builder}<br>@return Returns a reference to this object so that method calls can be chained together.<br>@see #endpoints(Map<String,String>)",
  "deprecated" : false,
  "documentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc',vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "endpoints",
  "fluentSetterDocumentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc',vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.",
  "getterDocumentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc',vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationExcep<code>tion.<p @return Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc',vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.","getterModel" : {
  "returnType" : "java.util.Map<String,String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
Key property for this object.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "Key",

"sensitive" : false,

"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n",

"setterMethodName" : "setKey",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"}
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "ServiceUrl",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link String}. The value parameter is a consumer that will call methods on { @link String.Builder}.

@return Returns a reference to this object so that method calls can be chained together.
@see #value(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@value The new value for the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

@value The value of the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\n\n@return The new value for this object.\n\n@throws IllegalArgumentException if the new value is not valid.\n\n@throws RuntimeException if an internal error occurs."
,"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "Endpoints",
"sensitive" : false,
"setterDocumentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>\'{\"vpc\",\'vpc-endpoint-h2d3d34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com\'}\</code></p>\n\n@throws IllegalArgumentException if the new value is not valid.\n\n@throws RuntimeException if an internal error occurs."
,"setterMethodName" : "setEndpoints",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoints",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoints",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "Endpoints",
"sensitive" : false,
"setterDocumentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>\'{\"vpc\",\'vpc-endpoint-h2d3d34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com\'}\</code></p>\n\n@throws IllegalArgumentException if the new value is not valid.\n\n@throws RuntimeException if an internal error occurs."
,"setterMethodName" : "setEndpoints",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoints",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoints",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "Endpoints",
"sensitive" : false,
h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'.</code>.

"setterMethodName" : "setEndpoints",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>"
},
"xmlNameSpaceUri" : null
},
"LogPublishingOptions" : {
  "beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
  "beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
  "c2jName" : "LogPublishingOptions",
  "c2jShape" : "LogPublishingOptions",
  "defaultConsumerFluentSetterDocumentation" : "Log publishing options for the given domain.\nThis is a convenience that creates an instance of the \{@link Map<String,LogPublishingOption> Builder\} avoiding the need to create one manually via \{@link Map<String,LogPublishingOption>#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link Map<String,LogPublishingOption> Builder#build()\} is called immediately and its result is passed to \{@link #logPublishingOptionsAsStrings(Map<String,LogPublishingOption>\}).\n@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>\)",
  "deprecated" : false,
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "logPublishingOptions",
  "fluentEnumSetterMethodName" : "logPublishingOptions",
  "fluentGetterMethodName" : "logPublishingOptionsAsStrings",
  "fluentSetterDocumentation" : "Log publishing options for the given domain.\n@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>\)",
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumeratedSetName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptionsAsStrings",
  "documentation" : "Log publishing options for the given domain.\nendpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
that method calls can be chained together.

"fluentSetterMethodName" : "logPublishingOptionsWithStrings",
"getterDocumentation" : "<p>Log publishing options for the given domain.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Log publishing options for the given domain.

"getterModel" : {
  "returnType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LogPublishingOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LogPublishingOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKeyAsString",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "LogType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String.Builder#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #keyAsString(String)}. @return Returns a reference to this object so that method calls can be chained together. @param key a consumer that will call methods on { @link String.Builder} @return Returns a reference to this object so that method calls can be chained together."
  }
},
"deprecated" : false,
"documentation" : "",}
"endpointDiscoveryId" : false,
"enumType" : "LogType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "key",
"fluentEnumSetterMethodName" : "key",
"fluentGetterMethodName" : "keyAsString",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\n@see LogType\n@returns Returns a reference to this object so that method calls can be chained together.\n@see LogType",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.\nIf the service returns an enum value that is not available in the current SDK version, [@link #key] will return [@link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from [@link #keyAsString].\n\n@returns The value of the Key property for this object.\n@see LogType",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n@see LogType\n@returns Returns a reference to this object so that method calls can be chained together.\n@see LogType",
"setterMethodName" : "setKey"
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
  "simple": true,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "String",
    "variableName": "key",
    "variableType": "String",
    "documentation": "",
    "simpleType": "String",
    "variableSetterType": "String"
  },
  "xmlNameSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "c2jName": "value",
  "c2jShape": "LogPublishingOption",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object. This is a convenience that creates an instance of the { @link LogPublishingOption.Builder } avoiding the need to create one manually via { @link LogPublishingOption#builder() }. When the { @link Consumer } completes, { @link LogPublishingOption.Builder#build() } is called immediately and its result is passed to { @link value(LogPublishingOption) }. @param value a consumer that will call methods on { @link LogPublishingOption.Builder } @return Returns a reference to this object so that method calls can be chained together.@see #value(LogPublishingOption)",
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "value",
  "fluentSetterDocumentation": "Sets the value of the Value property for this object. The new value for the Value property for this object.@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName": "value",
  "getterDocumentation": "Returns the value of the Value property for this object.@return The value of the Value property for this object."
"getterModel" : {
  "returnType" : "LogPublishingOption",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "value",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.
",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : ""
}
"simpleType" : "LogPublishingOption",
"variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Log publishing options for the given domain.</p>
@param logPublishingOptions Log publishing options for the given domain.",
"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
"variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
"variableName" : "logPublishingOptions",
"variableType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : null,
"simpleType" : "Map<String,LogPublishingOption>",
"variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
"variableName" : "logPublishingOptions",
"variableType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : "<p>Log publishing options for the given domain.</p>",
"simpleType" : "Map<String,LogPublishingOption>",
"variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri" : null
},
"NodeToNodeEncryptionOptions" : {
"beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
"beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
"c2jName" : "NodeToNodeEncryptionOptions",
"c2jShape" : "NodeToNodeEncryptionOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the
<code>NodeToNodeEncryptionOptions</code>.</p>
This is a convenience that creates an instance of the { @link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via { @link NodeToNodeEncryptionOptions#builder()}. When the { @link Consumer} completes, { @link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to { @link #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)}. @param nodeToNodeEncryptionOptions a consumer that will call methods on { @link NodeToNodeEncryptionOptions.Builder}@return Returns a reference
<code>NodeToNodeEncryptionOptions</code>.
"
"deprecated" : false,
"documentation" : "Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.
@endp\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "Specifies the status of the <code>NodeToNodeEncryptionOptions</code>."
@return Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.
"getterModel" : {
"returnType" : "NodeToNodeEncryptionOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NodeToNodeEncryptionOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NodeToNodeEncryptionOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"sensitive" : false,
"setterDocumentation" : "Specifies the status of the"
<code>NodeToNodeEncryptionOptions</code>.

@param nodeToNodeEncryptionOptions Specifies the status of the <code>NodeToNodeEncryptionOptions</code>."

setterMethodName": "setNodeToNodeEncryptionOptions",
"setterModel": {
  "variableDeclarationType": "NodeToNodeEncryptionOptions",
  "variableName": "nodeToNodeEncryptionOptions",
  "variableType": "NodeToNodeEncryptionOptions",
  "documentation": null,
  "simpleType": "NodeToNodeEncryptionOptions",
  "variableSetterType": "NodeToNodeEncryptionOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "NodeToNodeEncryptionOptions",
  "variableName": "nodeToNodeEncryptionOptions",
  "variableType": "NodeToNodeEncryptionOptions",
  "documentation": "Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.
",
  "simpleType": "NodeToNodeEncryptionOptions",
  "variableSetterType": "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri": null
},

"Processing": {
  "beanStyleGetterMethodName": "getProcessing",
  "beanStyleSetterMethodName": "setProcessing",
  "c2jName": "Processing",
  "c2jShape": "Boolean",
  "defaultConsumerFluentSetterDocumentation": "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

@returns Returns a reference to this object so that method calls can be chained together.
@see #processing(Boolean)"
, "deprecated": false,
  "documentation": "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.
", "endpointDiscoveryId": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "processing",
  "fluentSetterDocumentation": "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is
The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

@return Returns a reference to this object so that method calls can be chained together.

"idUserpMethod": "processing",
"getterDocumentation": "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

@return The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

"setterDocumentation": "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

"setterMethodName": "setProcessing",
"setterModel": {
  "variableDeclarationType": "Boolean",
  "variableName": "processing",
  "variableType": "Boolean",
}
"variable" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "processing",
    "variableType" : "Boolean",
    "documentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.",
    "simpleType" : "Boolean",
    "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},

"ServiceSoftwareOptions" : {
    "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
    "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
    "c2jName" : "ServiceSoftwareOptions",
    "c2jShape" : "ServiceSoftwareOptions",
    "defaultConsumerFluentSetterDocumentation" : "The current status of the Elasticsearch domain's service software.
This is a convenience that creates an instance of the [{@link ServiceSoftwareOptions.Builder}] avoiding the need to create one manually via [{@link ServiceSoftwareOptions#builder()}].
When the [{@link Consumer}] completes, [{@link ServiceSoftwareOptions.Builder#build()}] is called immediately and its result is passed to [{@link #serviceSoftwareOptions(ServiceSoftwareOptions)}].
@param serviceSoftwareOptions a consumer that will call methods on [{@link ServiceSoftwareOptions.Builder}]
@return Returns a reference to this object so that method calls can be chained together.
@see #serviceSoftwareOptions(ServiceSoftwareOptions)",
    "deprecated" : false,
    "documentation" : "The current status of the Elasticsearch domain's service software.",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "serviceSoftwareOptions",
    "fluentSetterMethodName" : "serviceSoftwareOptions",
    "fluentSetterDocumentation" : "The current status of the Elasticsearch domain's service software.
This is a convenience that creates an instance of the [{@link ServiceSoftwareOptions.Builder}] avoiding the need to create one manually via [{@link ServiceSoftwareOptions#builder()}].
When the [{@link Consumer}] completes, [{@link ServiceSoftwareOptions.Builder#build()}] is called immediately and its result is passed to [{@link #serviceSoftwareOptions(ServiceSoftwareOptions)}].
@param serviceSoftwareOptions The current status of the Elasticsearch domain's service software.
@return Returns a reference to this object so that method calls can be chained together.
@see #serviceSoftwareOptions(ServiceSoftwareOptions)",
    "getterDocumentation" : "The current status of the Elasticsearch domain's service software.",
    "getterModel" : {
        "returnType" : "ServiceSoftwareOptions",
        "documentation" : null
    },
}
"http": {  
  "additionalMarshallingPath": null,  
  "additionalUnmarshallingPath": null,  
  "flattened": false,  
  "greedy": false,  
  "header": false,  
  "isPayload": false,  
  "isStreaming": false,  
  "location": null,  
  "marshallLocation": "PAYLOAD",  
  "marshallLocationName": "ServiceSoftwareOptions",  
  "queryString": false,  
  "statusCode": false,  
  "unmarshallLocationName": "ServiceSoftwareOptions",  
  "uri": false  
},  
"idempotencyToken": false,  
"isBinary": false,  
"jsonValue": false,  
"list": false,  
"listModel": null,  
"map": false,  
"mapModel": null,  
"marshallingType": "SDK_POJO",  
"name": "ServiceSoftwareOptions",  
"sensitive": false,  
"setterDocumentation": "<p>The current status of the Elasticsearch domain's service software.</p>\n@param serviceSoftwareOptions The current status of the Elasticsearch domain's service software.",  
"setterMethodName": "setServiceSoftwareOptions",  
"setterModel": {  
  "variableDeclarationType": "ServiceSoftwareOptions",  
  "variableName": "serviceSoftwareOptions",  
  "variableType": "ServiceSoftwareOptions",  
  "documentation": null,  
  "simpleType": "ServiceSoftwareOptions",  
  "variableSetterType": "ServiceSoftwareOptions"  
},  
"simple": false,  
"timestampFormat": null,  
"variable": {  
  "variableDeclarationType": "ServiceSoftwareOptions",  
  "variableName": "serviceSoftwareOptions",  
  "variableType": "ServiceSoftwareOptions",  
  "documentation": "<p>The current status of the Elasticsearch domain's service software.</p>\"",  
  "simpleType": "ServiceSoftwareOptions",  
  "variableSetterType": "ServiceSoftwareOptions"  
},  
"xmlNameSpaceUri": null
"SnapshotOptions" : {
    "beanStyleGetterMethodName" : "getSnapshotOptions",
    "beanStyleSetterMethodName" : "setSnapshotOptions",
    "c2jName" : "SnapshotOptions",
    "c2jShape" : "SnapshotOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the
<code>SnapshotOptions</code></p>
This is a convenience that creates an instance of the {@link SnapshotOptions.Builder} avoiding the need to create one manually via {@link SnapshotOptions#builder()}. When the [@link Consumer] completes, [@link SnapshotOptions.Builder#build()] is called immediately and its result is passed to [@link #snapshotOptions(SnapshotOptions)]\n@see #snapshotOptions(SnapshotOptions)",
    "deprecated" : false,
    "documentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "snapshotOptions",
    "fluentSetterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@param snapshotOptions Specifies the status of the <code>SnapshotOptions</code>
@return Returns a reference to this object so that method calls can be chained
together.
@see #snapshotOptions(SnapshotOptions)",
    "fluentSetterMethodName" : "snapshotOptions",
    "getterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@return Specifies the status of the <code>SnapshotOptions</code>",
    "getterModel" : {
        "returnType" : "SnapshotOptions",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "SnapshotOptions",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "SnapshotOptions",
        "uri" : false
    }
},
"SnapshotOptions" : {
    "beanStyleGetterMethodName" : "getSnapshotOptions",
    "beanStyleSetterMethodName" : "setSnapshotOptions",
    "c2jName" : "SnapshotOptions",
    "c2jShape" : "SnapshotOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the
<code>SnapshotOptions</code></p>
This is a convenience that creates an instance of the {@link SnapshotOptions.Builder} avoiding the need to create one manually via {@link SnapshotOptions#builder()}. When the [@link Consumer] completes, [@link SnapshotOptions.Builder#build()] is called immediately and its result is passed to [@link #snapshotOptions(SnapshotOptions)]\n@see #snapshotOptions(SnapshotOptions)",
    "deprecated" : false,
    "documentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "snapshotOptions",
    "fluentSetterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@param snapshotOptions Specifies the status of the <code>SnapshotOptions</code>
@return Returns a reference to this object so that method calls can be chained
together.
@see #snapshotOptions(SnapshotOptions)",
    "fluentSetterMethodName" : "snapshotOptions",
    "getterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@return Specifies the status of the <code>SnapshotOptions</code>",
    "getterModel" : {
        "returnType" : "SnapshotOptions",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "SnapshotOptions",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "SnapshotOptions",
        "uri" : false
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@param
snapshotOptions Specifies the status of the <code>SnapshotOptions</code>",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
},
"UpgradeProcessing" : {
  "beanStyleGetterMethodName" : "getUpgradeProcessing",
  "beanStyleSetterMethodName" : "setUpgradeProcessing",
  "c2jName" : "UpgradeProcessing",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.</p>
  This is a convenience that creates an instance of the <link Boolean.Builder> avoiding the need to create one manually via <link @link Boolean.Builder#builder()>.
  When the <link Consumer> completes, <link @link Boolean.Builder#build()> is called immediately and its result is passed to <link upgradeProcessing(Boolean)>.
  @param upgradeProcessing a consumer that will call methods on <link Boolean.Builder>.
  @return Returns a reference to this object so that method calls can be chained together.<link @see #upgradeProcessing(Boolean)>
  "deprecated" : false,
"documentation" : "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.",

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeProcessing",
"fluentSetterDocumentation" : "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active. 
\n@param upgradeProcessing The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active. 
\n@return Returns a reference to this object so that method calls can be chained together.",

"getterDocumentation" : "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active. 
\n@return The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeProcessing",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpgradeProcessing",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN"
"name" : "UpgradeProcessing",
"sensitive" : false,
"setterDocumentation" : "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

@<p>@param upgradeProcessing The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

setterMethodName" : "setUpgradeProcessing",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "upgradeProcessing",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "upgradeProcessing",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"VPCOptions" : {
  "beanStyleGetterMethodName" : "getVpcOptions",
  "beanStyleSetterMethodName" : "setVpcOptions",
  "c2jName" : "VPCOptions",
  "c2jShape" : "VPCDerivedInfo",
  "defaultConsumerFluentSetterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. This is a convenience that creates an instance of the <code>VPCDerivedInfo.Builder</code> avoiding the need to create one manually via <code>VPCDerivedInfo.Builder#builder()</code>. When the <code>Consumer</code> completes, <code>VPCDerivedInfo.Builder#build()</code> is called immediately and its result is passed to <code>VPCDerivedInfo</code>.

@<p>@param vpcOptions a consumer that will call methods on the <code>VPCDerivedInfo.Builder</code>

@<p>@return Returns a reference to this object so that method calls can be chained together.

@see #vpcOptions(VPCDerivedInfo)

deprecated" : false,
"documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterDocumentation" : "&lt;p&gt;The &lt;code&gt;VPCOptions&lt;/code&gt; for the specified domain. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank"&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/a&gt;.&lt;/p&gt;
\@param vpcOptions The &lt;code&gt;VPCOptions&lt;/code&gt; for the specified domain. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank"&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/a&gt;.&lt;/p&gt;
\@return Returns a reference to this object so that method calls can be chained together.;",
"fluentSetterMethodName" : "vpcOptions",
"getterDocumentation" : "&lt;p&gt;The &lt;code&gt;VPCOptions&lt;/code&gt; for the specified domain. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank"&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/a&gt;.&lt;/p&gt;
\@return The &lt;code&gt;VPCOptions&lt;/code&gt; for the specified domain. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank"&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/a&gt;.&lt;/p&gt;",
"getterModel" : {
"returnType" : "VPCDerivedInfo",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCOptions",
"uri" : false
},
"idempotencyToken" : false,
isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType": "SDK_POJO",
"name": "VPCOptions",
"sensitive": false,
"setterDocumentation": "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",
@param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.
"setterMethodName": "setVpcOptions",
"setterModel": {
  "variableDeclarationType": "VPCDerivedInfo",
  "variableName": "vpcOptions",
  "variableType": "VPCDerivedInfo",
  "documentation": null,
  "simpleType": "VPCDerivedInfo",
  "variableSetterType": "VPCDerivedInfo"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "VPCDerivedInfo",
  "variableName": "vpcOptions",
  "variableType": "VPCDerivedInfo",
  "documentation": "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.
  ",
  "simple": false,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "VPCDerivedInfo",
    "variableName": "vpcOptions",
    "variableType": "VPCDerivedInfo",
    "documentation": null,
    "simpleType": "VPCDerivedInfo",
    "variableSetterType": "VPCDerivedInfo"
  },
  "xmlNameSpaceUri": null
},
"nonStreamingMembers": [
  "beanStyleGetterMethodName": "getDomainId",
  "beanStyleSetterMethodName": "setDomainId",
  "c2jName": "DomainId",
  "c2jShape": "DomainId",
  "defaultConsumerFluentSetterDocumentation": "The unique identifier for the specified ElasticSearch domain.
  ",
  "deprecated": false,
  "documentation": "The unique identifier for the specified ElasticSearch domain.
  ",
  "endpointDiscoveryId": false,
  "enumType": null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainId",
"fluentSetterMethodName" : "domainId",
"fluentSetterDocumentation" : "The unique identifier for the specified Elasticsearch domain.\n@param domainId The unique identifier for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.\n",
"getterDocumentation" : "The unique identifier for the specified Elasticsearch domain.\n@return The unique identifier for the specified Elasticsearch domain.\n",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainId",
"setterDocumentation" : "The unique identifier for the specified Elasticsearch domain.\n@param domainId The unique identifier for the specified Elasticsearch domain.\n",
"setterMethodName" : "setDomainId",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainId",
"variableType" : "String",
"setterMethodName" : "setDomainId",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainId",
"variableType" : "String"}
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
}
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainId",
  "variableType" : "String",
  "documentation" : "The unique identifier for the specified Elasticsearch domain."",
  "simpleType" : "String",
  "variableSetterType" : "String"
}
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()].
When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #domainName(String)].
@see #domainName(String)",
  "deprecated" : false,
  "documentation" : "The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen)."",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen)."
  "return" : "Returns a reference to this object so that method calls can be chained together."",
  "getterDocumentation" : "The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen)."
  "methodName" : "domainName",
  "name" : "domainName",
  "nullOnMissing" : false,
  "simple" : true,
  "simpleType" : "String",
  "variableSetterType" : "String"
}
the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>@return The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).”,

"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "DomainName",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "DomainName",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",

"setterMethodName" : "setDomainName",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",
  "complexType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
}, {
  "beanStyleGetterMethodName": "getArn",
  "beanStyleSetterMethodName": "setArn",
  "c2jName": "ARN",
  "c2jShape": "ARN",
  "defaultConsumerFluentSetterDocumentation": "The Amazon resource name (ARN) of an Elasticsearch domain. See Identifiers for IAM Entities in Using AWS Identity and Access Management for more information.

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.Builder.build(). When the Consumer completes, String.Builder.build() is called immediately and its result is passed to #arn(String).

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #arn(String)
",
  "documentation": "The Amazon resource name (ARN) of an Elasticsearch domain. See Identifiers for IAM Entities in Using AWS Identity and Access Management for more information.

endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "arn",
"fluentSetterMethodName": "arn",
"fluentSetterDocumentation": "The Amazon resource name (ARN) of an Elasticsearch domain. See Identifiers for IAM Entities in Using AWS Identity and Access Management for more information.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #arn(String)
",
  "documentation": "The Amazon resource name (ARN) of an Elasticsearch domain. See Identifiers for IAM Entities in Using AWS Identity and Access Management for more information.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #arn(String)
"}
Identifiers for IAM Entities

Identifiers for IAM Entities in Using AWS Identity and Access Management for more information.

The Amazon resource name (ARN) of an Elasticsearch domain. See Identifiers for IAM Entities in Using AWS Identity and Access Management for more information.

getterModel:

getterModel : {
  "returnType" : "String",
  "documentation" : null
},

http:

http : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ARN",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ARN",
  "uri" : false
},

idempotencyToken:

idempotencyToken : false,

isBinary:

isBinary : false,

jsonValue:

jsonValue : false,

list:

list : {
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "STRING",
  "name" : "ARN",
  "sensitive" : false,
  "setterDocumentation" : "The Amazon resource name (ARN) of an Elasticsearch domain. See Identifiers for IAM Entities in Using AWS Identity and Access Management for more information."
},

setterMethodName:

setterMethodName : "setArn",

setterModel:

setterModel : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "arn",
"variableType" : "String",
},
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getCreated",
"beanStyleSetterMethodName" : "setCreated",
"c2jName" : "Created",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "The domain creation status. True if the creation of an Elasticsearch domain is complete. False if domain creation is still in progress. This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #created(Boolean)}. @param created a consumer that will call methods on {@link Boolean.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #created(Boolean)",
"deprecated" : false,
"documentation" : "The domain creation status. True if the creation of an Elasticsearch domain is complete. False if domain creation is still in progress.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "created",
"fluentSetterMethodName" : "created",
"fluentSetterDocumentation" : "The domain creation status. True if the creation of an Elasticsearch domain is complete. False if domain creation is still in progress. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #created(Boolean)}. @param created a consumer that will call methods on {@link Boolean.Builder}@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "The domain creation status. True if the creation of an Elasticsearch domain is complete. False if domain creation is still in progress.",
"getDocumentation" : "The domain creation status. True if the creation of an Elasticsearch domain is complete. False if domain creation is still in progress.",
"parameterDocumentation" : "The domain creation status. True if the creation of an Elasticsearch domain is complete. False if domain creation is still in progress.",
"setterDocumentation" : "The domain creation status. True if the creation of an Elasticsearch domain is complete. False if domain creation is still in progress."
<code>False</code> if domain creation is still in progress.

```json
"getterModel" : {
    "returnType" : "Boolean",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Created",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Created",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Created",
"sensitive" : false,
"setterDocumentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress."
```

```java
public boolean created = false;
```

```

\@param created The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.
```
"variableName" : "created",
"variableType" : "Boolean",
"documentation" : "<p>The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.</p>",
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getDeleted",
"beanStyleSetterMethodName" : "setDeleted",
"c2jName" : "Deleted",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link Boolean_deleted(Boolean)}. @param deleted a consumer that will call methods on {@link Boolean.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #deleted(Boolean)",
"deprecated" : false,
"documentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "deleted",
"fluentSetterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>
@return Returns a reference to this object so that method calls can be chained together.
@see #deleted(Boolean)",
"getterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
@return Returns a reference to this object so that method calls can be chained together.
@see #deleted(Boolean)",
"getterModel" : {
"returnType" : "Boolean",
"contentType" : "null",
"isNullable" : false,
"xmlNameSpaceUri" : null
}
"getterSetterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
@return Returns a reference to this object so that method calls can be chained together.
@see #deleted(Boolean)",
"setterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
@see #deleted(Boolean)"
"setterDocumentation" : ""The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.",
"setterMethodName" : "setDeleted",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "deleted",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "deleted",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"}
"variableType" : "Boolean",
"documentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>",
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
}
,
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getEndpoint",
"beanStyleSetterMethodName" : "setEndpoint",
"c2jName" : "Endpoint",
"c2jShape" : "ServiceUrl",
"defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests. 
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. 
When the {@link Consumer} completes, {
{@link String.Builder#build()} is called immediately and its result is passed to {
@link #endpoint(String)}.
@noParam endpoint a consumer that will call methods on {
{@link String.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)
",
"deprecated" : false,
"documentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoint",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoint",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoint",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoint",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoint",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>"
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Endpoint",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Endpoint",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Endpoint",
" sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
@param endpoint The Elasticsearch domain endpoint that you use to submit index and search requests.
",
"setterMethodName" : "setEndpoint",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoint",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoint",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getEndpoints",
"beanStyleSetterMethodName" : "setEndpoints",
"c2jName" : "Endpoints",
"c2jShape" : "EndpointsMap",
"defaultConsumerFluentSetterDocumentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-"
This is a convenience that creates an instance of the { @link Map<String,String>.Builder } avoiding the need to create one manually via { @link Map<String,String>#builder() }. When the { @link Consumer } completes, { @link Map<String,String>.Builder#build() } is called immediately and its result is passed to { @link Map<String,String>.Builder#endpoints(Map<String,String>) }. Returns a reference to this object so that method calls can be chained together.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

Returns Map containing the Elasticsearch domain endpoints used to submit index and search requests.

Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.
"unmarshallLocationName" : "Endpoints",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
"implType" : "java.util.HashMap",
"interfaceType" : "java.util.Map",
"keyLocationName" : "key",
"keyModel" : {
"beanStyleGetterMethodName" : "getKey",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "key",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}.\n\n@param key a consumer that will call methods on { @link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}.\n\n@param key a consumer that will call methods on { @link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
"getterDocumentation" : "key",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "key",
"queryString": false,
"statusId": false,
"unmarshallLocationName": "key",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"sensitive": false,
"setterDocumentation": "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n",
"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"}
"c2jName" : "value",
"c2jShape" : "ServiceUrl",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String.Builder#builder()}. When the [ @link Consumer] completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link value(String)}. @param value a consumer that will call methods on { @link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #value(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@ flavable The new value for the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object."

"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "Endpoints",
"sensitive" : false,
"setterDocumentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

@param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

"setterMethodName" : "setEndpoints",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>"
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.Map<String,String>",
  "variableName": "endpoints",
  "variableType": "java.util.Map<String,String>",
  "documentation": "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc',\'vpc-endpoint-h2223sd34efgyghrtguk5gt62foh4.us-east-1.es.amazonaws.com'</code>.</p>",
  "simpleType": "Map<String,String>",
  "variableSetterType": "java.util.Map<String,String>"
},
"xmlns:uri" : null
],
]"beanStyleGetterMethodName": "getProcessing",
"beanStyleSetterMethodName": "setProcessing",
"c2jName": "Processing",
"c2jShape": "Boolean",
"defaultConsumerFluentSetterDocumentation": "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active. </p>
This is a convenience that creates an instance of the [{@link Boolean.Builder}] avoiding the need to create one manually via [@link Boolean#builder()].
When the [{@link Consumer} completes, [@link Boolean.Builder#build()] is called immediately and its result is passed to [@link #processing(Boolean)].

@ see #processing(Boolean)",
"deprecated": false,
"documentation": "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "processing",
"fluentSetterDocumentation": "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>
@ see #processing(Boolean)",
"getterDocumentation": "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>",
"getterModel": {
  "returnType": "Boolean",
"getterModel": "processing",
  "getterDocumentation": "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>"}
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Processing",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Processing",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Processing",
"sensitive" : false,
"setterDocumentation" : "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>
@param processing The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

setterMethod Name" : "setProcessing",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "processing",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "processing",
  "variableType" : "Boolean"}
"documentation": "The status of the Elasticsearch domain configuration. <code>Ture</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.",
"simpleType": "Boolean",
"variableSetterType": "Boolean",
"xmlNameSpaceUri": null,
"beanStyleGetterMethodName": "getUpgradeProcessing",
"beanStyleSetterMethodName": "setUpgradeProcessing",
"c2jName": "UpgradeProcessing",
"c2jShape": "Boolean",
"defaultConsumerFluentSetterDocumentation": "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "upgradeProcessing",
"fluentSetterDocumentation": "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.",
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "UpgradeProcessing",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "UpgradeProcessing",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "UpgradeProcessing",
"sensitive": false,
"setterDocumentation": "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.</p>
@param upgradeProcessing The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

"setterMethodName": "setUpgradeProcessing",
"setterModel": {
"variableDeclarationType": "Boolean",
"variableName": "upgradeProcessing",
"variableType": "Boolean",
"documentation": null,
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "Boolean",
"variableName": "upgradeProcessing",
"variableType": "Boolean",
"documentation": "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.</p>
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
null}
"beanStyleGetterMethodName" : "getElasticsearchVersion",
"beanStyleSetterMethodName" : "setElasticsearchVersion",
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object. This is a convenience that creates an instance of the @link String.Builder) avoiding the need to create one manually via @link String.Builder). When the @link Consumer} completes, @link String.Builder#build() is called immediately and its result is passed to @link ElasticsearchVersion(String)).
@n@n@return Returns a reference to this object so that method calls can be chained together.
@n@n@see ElasticsearchVersion(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object. The new value for the ElasticsearchVersion property for this object.
@n@n@return Returns a reference to this object so that method calls can be chained together.
@n@n@see ElasticsearchVersion(String)",
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "Returns the value of the ElasticsearchVersion property for this object.
@n@n@return The value of the ElasticsearchVersion property for this object.
@n@n@see ElasticsearchVersion(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
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"additionalUnmarshallingPath" : null,
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"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object.\n\n\n@param elasticsearchVersion The new value for the ElasticsearchVersion property for this object.\n",
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
  "beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
  "c2jName" : "ElasticsearchClusterConfig",
  "c2jShape" : "ElasticsearchClusterConfig",
  "defaultConsumerFluentSetterDocumentation" : "<p>The type and number of instances in the domain cluster.\nThis is a convenience that creates an instance of the { @link ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via { @link ElasticsearchClusterConfig#builder()}.\nWhen the { @link Consumer} completes, { @link ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to { @link #elasticsearchClusterConfig(ElasticsearchClusterConfig)} a consumer that will call methods on { @link ElasticsearchClusterConfig.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #elasticsearchClusterConfig(ElasticsearchClusterConfig)",
  "deprecated" : false,
  "documentation" : "<p>The type and number of instances in the domain cluster.\n",
  "endpointDiscoveryId" : false,
  "enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterDocumentation" : "<p>The type and number of instances in the domain cluster.<p>@param
elasticsearchClusterConfig The type and number of instances in the domain cluster.<p>@return Returns a reference to
this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"getterDocumentation" : "<p>The type and number of instances in the domain cluster.<p>@return The type
and number of instances in the domain cluster.",
"getterModel" : {
"returnType" : "ElasticsearchClusterConfig",
"documentation" : null
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"http" : {
"additionalMarshallingPath" : null,
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"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"sensitive" : false,
"setterDocumentation" : "<p>The type and number of instances in the domain cluster.<p>@param
elasticsearchClusterConfig The type and number of instances in the domain cluster.",
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchClusterConfig",
"variableName" : "elasticsearchClusterConfig",
"variableType" : "ElasticsearchClusterConfig"
"documentation" : null,
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ElasticsearchClusterConfig",
"variableName" : "elasticsearchClusterConfig",
"variableType" : "ElasticsearchClusterConfig",
"documentation" : "The type and number of instances in the domain cluster.",
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.\n\nThis is a convenience that creates an instance of the {@link EBSOptions.Builder} avoiding the need to create one manually via {@link EBSOptions.Builder#build()}.\n\nWhen the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link #ebsOptions(EBSOptions)\n@see param ebsOptions a consumer that will call methods on {@link EBSOptions.Builder} and return Returns a reference to this object so that method calls can be chained together.\n@see #ebsOptions(EBSOptions),
"deprecated" : false,
"documentation" : "The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.\n\n@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",
"fluentSetterDocumentation" : "The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.\n\n@see param ebsOptions The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.\n@see @param ebsOptions The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.\n\nreturn Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "ebsOptions",

@return The <code>EBSOptions</code> for the specified domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs" target="_blank">Configuring EBS-based Storage</a> for more information.",

"getterModel": {
  "returnType": "EBSOptions",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "EBSOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "EBSOptions",
  "uri": false
},

"idempotencyToken": false,


@param ebsOptions The <code>EBSOptions</code> for the specified domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs" target="_blank">Configuring EBS-based Storage</a> for more information.",

"setterMethodName": "setEbsOptions",

"setterModel": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "ebsOptions",
  "variableType": "EBSOptions",
  "documentation": null,
"simpleType": "EBSOptions",
"variableSetterType": "EBSOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "ebsOptions",
  "variableType": "EBSOptions",
  "simpleType": "EBSOptions",
  "variableSetterType": "EBSOptions"
},
"xmlNameSpaceUri": null
}
"beanStyleGetterMethodName": "getAccessPolicies",
"beanStyleSetterMethodName": "setAccessPolicies",
"c2jName": "AccessPolicies",
"c2jShape": "PolicyDocument",
"defaultConsumerFluentSetterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>\nThis is a convenience that creates an instance of the {<link String.Builder> avoiding the need to create one manually via {<link String#builder()}.\nWhen the {<link Consumer> completes, {<link String.Builder#build()} is called immediately and its result is passed to {<link #accessPolicies(String)}.\n@param accessPolicies a consumer that will call methods on {<link String.Builder}>\n@return Returns a reference to this object so that method calls can be chained together.\n@see #accessPolicies(String)",
"deprecated": false,
"documentation": "<p>IAM access policy as a JSON-formatted string.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "accessPolicies",
"fluentSetterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>\n@param accessPolicies IAM access policy as a JSON-formatted string.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #accessPolicies(String)",
"getterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
},
:idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"simple" : false,
"setterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies

IAM access policy as a JSON-formatted string.
,setterMethodName" : "setAccessPolicies",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "accessPolicies",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
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    "variableName" : "accessPolicies",
    "variableType" : "String",
    "documentation" : "<p> IAM access policy as a JSON-formatted string.</p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getSnapshotOptions",
"getterDocumentation" : "<p> Access policy snapshot options.

@returns object

<p> Access policy snapshot options.</p>"}
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions",
"c2jShape" : "SnapshotOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the
SnapshotOptions</p>
This is a convenience that creates an instance of the<br/>
SnapshotOptions.Builder) avoiding the need to create one manually via<br/>
SnapshotOptions#builder().
When the Consumer completes, SnapshotOptions.Builder#build() is called immediately and its result is passed to a consumer that will call methods on it

@link SnapshotOptions.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #snapshotOptions(SnapshotOptions)",

deprecated" : false,
"documentation" : "<p>Specifies the status of the SnapshotOptions</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "snapshotOptions",
"fluentSetterDocumentation" : "<p>Specifies the status of the SnapshotOptions</p>
@param snapshotOptions Specifies the status of the SnapshotOptions
@return Returns a reference to this object so that method calls can be chained together.
@return Returns a reference to this object so that method calls can be chained together.
@see #snapshotOptions(SnapshotOptions)",
getDocumentation" : "<p>Specifies the status of the SnapshotOptions</p>",
"getterModel" : {
  "returnType" : "SnapshotOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
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  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "SnapshotOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "SnapshotOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@param
snapshotOptions Specifies the status of the <code>SnapshotOptions</code>

"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
"simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null,
},
{
  "beanStyleGetterMethodName" : "getVpcOptions",
  "beanStyleSetterMethodName" : "setVpcOptions",
  "c2jName" : "VPCOptions",
  "c2jShape" : "VPCDerivedInfo",
  "defaultConsumerFluentSetterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. This is a convenience that creates an instance of the <link VPCDerivedInfo.Builder> avoiding the need to create one manually via <link VPCDerivedInfo.Builder> completes, <link VPCDerivedInfo.Builder> is called immediately and its result is passed to <link VPCDerivedInfo.Builder> a consumer that will call methods on <link VPCDerivedInfo.Builder> a reference to this object so that method calls can be chained together.<link VPCDerivedInfo.Builder> Returns a reference to this object so that method calls can be chained together.</link VPCDerivedInfo.Builder> deprecated" : false,
  "documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. </p>"},
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"sensitive" : false,
"setterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",
@param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",
"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfo",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfo",
  "documentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"xmlNameSpaceUri" : null,
},
"beanStyleGetterMethodName" : "getCognitoOptions",
"beanStyleSetterMethodName" : "setCognitoOptions",
"c2jName" : "CognitoOptions",
"c2jShape" : "CognitoOptions",
"defaultConsumerFluentSetterDocumentation" : "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>."

This is a convenience that creates an instance of the [@link CognitoOptions.Builder] avoiding the need to create one manually via [@link CognitoOptions#builder()].

When the [@link Consumer] completes, [@link CognitoOptions.Builder#build()] is called immediately and its result is passed to [@link CognitoOptions(CognitoOptions)].

@returns a reference to this object so that method calls can be chained together.

@see #cognitoOptions(CognitoOptions)
@doc德precated" : false,
"documentation" : "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>

This is a convenience that creates an instance of the [CognitoOptions.Builder] avoiding the need to create one manually via CognitoOptions#builder().

When the Consumer completes, CognitoOptions.Builder#build() is called immediately and its result is passed to CognitoOptions.

@returns a reference to this object so that method calls can be chained together.

@see CognitoOptions(CognitoOptions)
@doc deprecated" : false,
Amazon Cognito Authentication for Kibana]/</code> for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>&gt;.&lt;/p&gt;&lt;p&gt;\n@return Returns a reference to this object so that method calls can be chained together."],
        "fluentSetterMethodName" : "cognitoOptions",
        "getterDocumentation" : "&lt;p&gt;The &lt;code&gt;CognitoOptions&lt;/code&gt; for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>&gt;.&lt;/p&gt;&lt;p&gt;\n@return The &lt;code&gt;CognitoOptions&lt;/code&gt; for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>&gt;.&lt;/p&gt;&lt;p&gt;\n@return Returns a reference to this object so that method calls can be chained together."],
        "getterModel" : { 
            "returnType" : "CognitoOptions",
            "documentation" : null
        },
        "http" : { 
            "additionalMarshallingPath" : null,
            "additionalUnmarshallingPath" : null,
            "flattened" : false,
            "greedy" : false,
            "header" : false,
            "isPayload" : false,
            "isStreaming" : false,
            "location" : null,
            "marshallLocation" : "PAYLOAD",
            "marshallLocationName" : "CognitoOptions",
            "queryString" : false,
            "statusCode" : false,
            "unmarshallLocationName" : "CognitoOptions",
            "uri" : false
        },
        "idempotencyToken" : false,
        "isBinary" : false,
        "jsonValue" : false,
        "list" : false,
        "listModel" : null,
        "map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"sensitive" : false,
"setterDocumentation" : "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.<p>
@param cognitoOptions The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
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"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
"beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
"c2jName" : "EncryptionAtRestOptions",
"c2jShape" : "EncryptionAtRestOptions",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>. This is a convenience that creates an instance of the <code>EncryptionAtRestOptions.Builder</code> avoiding the need to create one manually via <code>EncryptionAtRestOptions#builder()</code>. When the <code>EncryptionAtRestOptions.Builder#build()</code> is called immediately and its result is passed to <code>encryptionAtRestOptions(EncryptionAtRestOptions)</code> a consumer that will call methods on <code>EncryptionAtRestOptions.Builder#n@return Returns a reference to this object so that method calls can be chained together.<p>
@deprecated" : false,
"documentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "encryptionAtRestOptions",
"fluentSetterDocumentation" : "<p> Specifies the status of the
<code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>. Return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "encryptionAtRestOptions",
"getterDocumentation" : "<p> Specifies the status of the
<code>EncryptionAtRestOptions</code>.</p>
@return Specifies the status of the
<code>EncryptionAtRestOptions</code>.",
"getterModel" : {
 "returnType" : "EncryptionAtRestOptions",
 "documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "EncryptionAtRestOptions",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "EncryptionAtRestOptions",
 "uri" : false
},
"idempotencyToken" : false,
 "isBinary" : false,
 "jsonValue" : false,
 "list" : false,
 "listModel" : null,
 "map" : false,
 "mapModel" : null,
 "marshallingType" : "SDK_POJO",
 "name" : "EncryptionAtRestOptions",
 "sensitive" : false,
 "setterDocumentation" : "<p> Specifies the status of the
<code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>. Return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setEncryptionAtRestOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
"beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
"c2jName" : "NodeToNodeEncryptionOptions",
"c2jShape" : "NodeToNodeEncryptionOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code></p>\nThis is a convenience that creates an instance of the {<a href="#nodeToNodeEncryptionOptions">NodeToNodeEncryptionOptions</a>} avoiding the need to create one manually via {<a href="#nodeToNodeEncryptionOptionsBuilder">NodeToNodeEncryptionOptions.Builder</a>}.\nWhen the {<a href="#link Consumer">Consumer</a>} completes, {<a href="#link NodeToNodeEncryptionOptions.Builder#build">NodeToNodeEncryptionOptions.Builder#build()</a>} is called immediately and its result is passed to {<a href="#link NodeToNodeEncryptionOptions#nodeToNodeEncryptionOptions">NodeToNodeEncryptionOptions#nodeToNodeEncryptionOptions</a>}\n@param nodeToNodeEncryptionOptions a consumer that will call methods on {<a href="#link NodeToNodeEncryptionOptions.Builder">NodeToNodeEncryptionOptions.Builder</a>}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)"
,  
  "deprecated" : false,
  "documentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
  "fluentSetterDocumentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code></p>\n@param nodeToNodeEncryptionOptions Specifies the status of the <code>NodeToNodeEncryptionOptions</code>\n@return Returns a reference to this object so that method calls can be chained together.".
  "fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
  "getterDocumentation" : "<p>Specifies the status of the
NodeToNodeEncryptionOptions

\n
gettersModel: {
  returnModel: "NodeToNodeEncryptionOptions",
  documentation: null
},

http: {
  additionalMarshallingPath: null,
  additionalUnmarshallingPath: null,
  flattened: false,
  greedy: false,
  header: false,
  isPayload: false,
  isStreaming: false,
  location: null,
  marshallLocation: "PAYLOAD",
  marshallLocationName: "NodeToNodeEncryptionOptions",
  queryString: false,
  statusCode: false,
  unmarshallLocationName: "NodeToNodeEncryptionOptions",
  uri: false
},
idempotencyToken: false,
isBinary: false,
jsonValue: false,
list: false,
listModel: null,
map: false,
mapModel: null,
marshallingType: "SDK_POJO",
name: "NodeToNodeEncryptionOptions",
sensitive: false,
setterDocumentation: "Specifies the status of the NodeToNodeEncryptionOptions."
setterMethodName: "setNodeToNodeEncryptionOptions",
setterModel: {
  variableDeclarationType: "NodeToNodeEncryptionOptions",
  variableName: "nodeToNodeEncryptionOptions",
  variableType: "NodeToNodeEncryptionOptions",
  documentation: null,
  simpleType: "NodeToNodeEncryptionOptions",
  variableSetterType: "NodeToNodeEncryptionOptions"
},
simple: false,
timestampFormat: null,
variable: {
  variableDeclarationType: "NodeToNodeEncryptionOptions",
  variableMethod: "setNodeToNodeEncryptionOptions",
  variableName: "nodeToNodeEncryptionOptions",
  variableType: "NodeToNodeEncryptionOptions",
  documentation: null,
  simple: false,
  timestampFormat: null,
  variable: {
    variableDeclarationType: "NodeToNodeEncryptionOptions",
  }
}
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "AdvancedOptions",
"queryString": false,
"statusLocation": false,
"unmarshallLocationName": "AdvancedOptions",
"uri": false
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"idempotencyToken": false,
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"jsonValue": false,
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"map": true,
"mapModel": {
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  "interfaceType": "java.util.Map",
  "keyLocationName": "key",
  "keyModel": {
    "beanStyleGetterMethodName": "getKey",
    "beanStyleSetterMethodName": "setKey",
    "c2jName": "key",
    "c2jShape": "String",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}.

@see #key(String)
@deprecated"
  "documentation": ""
},
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "null",
"fluentEnumSetterMethodName": "null",
"fluentGetterMethodName": "key",
"fluentSetterDocumentation": "Sets the value of the Key property for this object. The new value for the Key property for this object.

@returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName": "key",
"getterDocumentation": "Returns the value of the Key property for this object."
"getterModel": {
  "returnType": "String",
  "documentation": null
}.
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "key",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "key",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"simple": true,
"setterDocumentation": "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object."
  
setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
  
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
  
},
"xmlNameSpaceUri": null
"valueLocationName" : "value",
"valueModel" : {
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "String",
"defaultValueconsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link String#builder()}\n\n@see #value(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.\n\n@see #value(String)\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@default ConsumerDocumentation" : "Sets the value of the Value property for this object.\n\n@param value a consumer that will call methods on {@link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@getDocumentation" : "Returns the value of the Value property for this object.\n\n@return The value of the Value property for this object."
"getterModel" : {
"returnType" : "String",
"documentation" : null
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"http" : {
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"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\n",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the status of the <code>AdvancedOptions</code></p><p>@param advancedOptions Specifies the status of the <code>AdvancedOptions</code></p>\n",
"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "Map<String,String>"}
"variableSetterType" : "java.util.Map<String,String>",

"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "<p>Specifies the status of the &lt;code&gt;AdvancedOptions&lt;/code&gt;</p>",
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"xmlNameSpaceUri" : null,

{"beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
"beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
"c2jName" : "LogPublishingOptions",
"c2jShape" : "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;Log publishing options for the given domain.&lt;/p&gt;\nThis is a convenience that creates an instance of the { @link Map&lt;String,LogPublishingOption&gt;}.Builder avoiding the need to create one manually via { @link Map&lt;String,LogPublishingOption&gt;#builder()}.\nWhen the { @link Consumer} completes, { @link Map&lt;String,LogPublishingOption&gt;}.Builder#build() is called immediately and its result is passed to { @link #logPublishingOptionsAsStrings(Map&lt;String,LogPublishingOption&gt;)}.
\n@param logPublishingOptions a consumer that will call methods on \{ @link Map&lt;String,LogPublishingOption&gt;}.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see #logPublishingOptionsWithStrings(Map&lt;String,LogPublishingOption&gt;)",
"deprecated" : false,
"documentation" : "&lt;p&gt;Log publishing options for the given domain.&lt;/p&gt;",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "&lt;p&gt;Log publishing options for the given domain.&lt;/p&gt;\n@param logPublishingOptions Log publishing options for the given domain.\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName" : "logPublishingOptionsWithStrings",
"getterDocumentation" : "&lt;p&gt;Log publishing options for the given domain.&lt;/p&gt;\n@param logPublishingOptions Log publishing options for the given domain.\n@return Log publishing options for the given domain.\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n",
"getterModel" : {
  "returnType" : "java.util.Map&lt;String,LogPublishingOption&gt;",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "LogPublishingOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "LogPublishingOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": true,
"mapModel": {
  "implType": "java.util.HashMap",
  "interfaceType": "java.util.Map",
  "keyLocationName": "key",
  "keyModel": {
    "beanStyleGetterMethodName": "getKeyAsString",
    "beanStyleSetterMethodName": "setKey",
    "c2jName": "key",
    "c2jShape": "LogType",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object.
This is a convenience that creates an instance of the "@link String.Builder" avoiding the need to create one manually via
@link String#builder()).
When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #keyAsString(String))
@link @param key a consumer that will call methods on @link String.Builder
@link @return Returns a reference to this object so that method calls can be chained together.
@see #key(String)",
"deprecated": false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": "LogType",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "key",
"fluentEnumSetterMethodName": "key",
"fluentGetterMethodName": "keyAsString",
"fluentSetterDocumentation": "Sets the value of the Key property for this object.
The new value for the Key property for this object.
@see LogType
@link @return Returns a reference to this object so that method calls can be chained together.
@see LogType",
"fluentSetterMethodName": "key"
"getterDocumentation" : "Returns the value of the Key property for this object. If the service returns an enum value that is not available in the current SDK version, \{ @link #key \} will return \{ @link LogType#UNKNOWN_TO_SDK_VERSION \}. The raw value returned by the service is available from \{ @link #keyAsString \}.\n
\@return The value of the Key property for this object.\n\@see LogType",

"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "key",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "key",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n\@param key The new value for the Key property for this object.\n\@see LogType",

"setterMethodName" : "setKey",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "key",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the LogPublishingOption.Builder avoiding the need to create one manually via LogPublishingOption.Builder().
When the Consumer completes, LogPublishingOption.Builder.build() is called immediately and its result is passed to LogPublishingOption.value().

@see LogPublishingOption",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.

The new value for the Value property for this object.

When the method completes, LogPublishingOption.Builder.build() is called immediately and its result is passed to LogPublishingOption.value().

@see LogPublishingOption",
  "getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.

getterModel" : {
  "returnType" : "LogPublishingOption",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
null

"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\n",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
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"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : "",
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
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"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Log publishing options for the given domain.</p>\n@param logPublishingOptions Log publishing options for the given domain.",
"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : null,
  "simpleType" : "Map<String,LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String,LogPublishingOption>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : "<p>Log publishing options for the given domain.</p>",
  "simpleType" : "Map<String,LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String,LogPublishingOption>",
},
"xmlNameSpaceUri" : null,

  "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
  "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
  "c2jName" : "ServiceSoftwareOptions",
  "c2jShape" : "ServiceSoftwareOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</p>\nThis is a convenience that creates an instance of the [@link ServiceSoftwareOptions.Builder] avoiding the need to create one manually via [@link ServiceSoftwareOptions#builder()].\nWhen the [@link Consumer] completes, [@link ServiceSoftwareOptions.Builder#build()] is called immediately and its result is passed to [@link #serviceSoftwareOptions(ServiceSoftwareOptions)].\n@Deprecated serviceSoftwareOptions a consumer that will call methods on [@link ServiceSoftwareOptions.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #serviceSoftwareOptions(ServiceSoftwareOptions)",
  "deprecated" : false,
  "documentation" : "<p>The current status of the Elasticsearch domain's service software.</p>"",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "serviceSoftwareOptions",
  "fluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</p>\n@param serviceSoftwareOptions The current status of the Elasticsearch domain's service software.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "serviceSoftwareOptions",
  "getterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</p>\n@return
The current status of the Elasticsearch domain's service software.

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"getterModel" : {
  "returnType" : "ServiceSoftwareOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ServiceSoftwareOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ServiceSoftwareOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"sensitive" : false,
"setterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</p><p>@param serviceSoftwareOptions The current status of the Elasticsearch domain's service software.</p>",
"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
}
```
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"documentation": "The current status of the Elasticsearch domain's service software.",
"simpleType": "ServiceSoftwareOptions",
"variableSetterType": "ServiceSoftwareOptions"
},
"xmlNameSpaceUri": null
],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "DomainId", "DomainName", "ARN", "ElasticsearchClusterConfig" ],
"shapeName": "ElasticsearchDomainStatus",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "ElasticsearchDomainStatus",
  "variableName": "elasticsearchDomainStatus",
  "variableType": "ElasticsearchDomainStatus",
  "documentation": null,
  "simpleType": "ElasticsearchDomainStatus",
  "variableSetterType": "ElasticsearchDomainStatus"
},
"wrapper": false
},
"ElasticsearchVersionStatus": {
  "c2jName": "ElasticsearchVersionStatus",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "Status of the Elasticsearch version options for the specified Elasticsearch domain.",
  "endpointDiscovery": null,
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": null,
  "resultWrapper": null
}
"members" : [ {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #options(String)].

@deprecated
@return Returns a reference to this object so that method calls can be chained together.
@see #options(String)",
"documentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>
@return Specifies the Elasticsearch version for the specified Elasticsearch domain.
@deprecated
@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayLoad" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "\<p\> Specifies the Elasticsearch version for the specified Elasticsearch domain.\</p\>\n\@param options Specifies the Elasticsearch version for the specified Elasticsearch domain.\",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "options",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "options",
  "variableType" : "String",
  "documentation" : "\<p\> Specifies the Elasticsearch version for the specified Elasticsearch domain.\</p\>\",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,

"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "\<p\> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.\</p\>\n\nThis is a convenience that creates an instance of the {\@link OptionStatus.Builder} avoiding the need to create one manually via {\@link OptionStatus#builder()}.\n\nWhen the {\@link Consumer} completes, {\@link OptionStatus.Builder#build()} is called immediately and its result is passed to {\@link #status(OptionStatus)}\n\n@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "\<p\> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.\</p\>\", 
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.\n@param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.\n</p>\n@return Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.\n"setterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.".

"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.\n@param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.\n@setStatus\n\nsetterModel" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",}
"variableType" : "OptionStatus",
"documentation" : null,
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
} ],
"membersAsMap" : {
"Options" : {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #options(String)}. @param options a consumer that will call methods on {@link String.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #options(String)",
"deprecated" : false,
"documentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. @param options Specifies the Elasticsearch version for the specified Elasticsearch domain. @return Returns a reference to this object so that method calls can be chained together. ".
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. @return Specifies the Elasticsearch version for the specified Elasticsearch domain. ".
"getterModel" : {
"returnType" : "String",
"documentation" : null
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "Options",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "Options",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"marshallType": "STRING",
"name": "Options",
"setterDocumentation": "\n<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.\n</p>un @param options Specifies the Elasticsearch version for the specified Elasticsearch domain.",
"setterMethodName": "setOptions",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "options",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "simpleSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "options",
  "variableType": "String",
  "documentation": "\n<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.\n</p>",
  "simpleType": "String",
  "variableSetterType": "String"
}
"xmlnsSpaceUri" : null
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"Status" : {
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain. </p>

This is a convenience that creates an instance of the { @link OptionStatus.Builder} avoiding the need to create one manually via { @link OptionStatus#builder()}. When the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link #status(OptionStatus)}.

When the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link #status(OptionStatus)}. Returns a reference to this object so that method calls can be chained together. 

@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain. </p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain. </p>

Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

@endpointDiscoveryId" : false,
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName": "Status",
"uri": false
],
"idempotencyToken": false,
"isBinary": false,
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"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
"sensitive": false,
"setterDocumentation": "\<p\> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.\</p\>\n@\param\ status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.\",
"setterMethodName": "setStatus",
"setterModel": {
"variableDeclarationType": "OptionStatus",
"variableName": "status",
"variableType": "OptionStatus",
"documentation": null,
"simpleType": "OptionStatus",
"variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "OptionStatus",
"variableName": "status",
"variableType": "OptionStatus",
"documentation": "\<p\> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.\</p\>\n\"simpleType": "OptionStatus",
"variableSetterType": "OptionStatus"
},
"xmlNameSpaceUri": null
},

"nonStreamingMembers": [ {
"beanStyleGetterMethodName": "getOptions",
"beanStyleSetterMethodName": "setOptions",
"c2jName": "Options",
"c2jShape": "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation": "\<p\> Specifies the Elasticsearch version for the specified Elasticsearch domain.\</p\>\n\nThis is a convenience that creates an instance of the {\@link String.Builder} avoiding the need to create one manually via {\@link String#builder()}\n\nWhen the {\@link Consumer} completes, {\@link String.Builder#build()} is called immediately and its result is passed to {\@link #options(String)}.\n@\param\ options
a consumer that will call methods on {}.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(String)

"deprecated" : false,
"documentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.\n</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.\n</p>
@param options Specifies the Elasticsearch version for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.\n</p>
@return Specifies the Elasticsearch version for the specified Elasticsearch domain.
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch
domain.

@param options Specifies the Elasticsearch version for the specified Elasticsearch domain.

"setterMethodName" : "setOptions",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "options",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "options",
    "variableType" : "String",
    "documentation" : "Specifies the Elasticsearch version for the specified Elasticsearch domain.",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus#builder()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link OptionStatus.Builder#return} as a consumer that will call methods on {@link OptionStatus.Builder}.

@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

@see #status(OptionStatus)",
"getterDocumentation" : "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

@see #status(OptionStatus)",
"return" Returns a reference to this object so that method calls can be chained together.

@param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

@see #status(OptionStatus)"
Elasticsearch domain.<p>@return Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

"getterModel" : {
    "returnType" : "OptionStatus",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Status",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Status",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain. </p>
@param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

"setterMethodName" : "setStatus",
"setterModel" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : null,
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},

"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "OptionStatus"}
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : "\n<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch 
domain.\n</p>\n",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "ElasticsearchVersionStatus",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "ElasticsearchVersionStatus",
"variableName" : "elasticsearchVersionStatus",
"variableType" : "ElasticsearchVersionStatus",
"documentation" : null,
"simpleType" : "ElasticsearchVersionStatus",
"variableSetterType" : "ElasticsearchVersionStatus"
},
"wrapper" : false
},
"EncryptionAtRestOptions" : {
"c2jName" : "EncryptionAtRestOptions",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "\n<p> Specifies the Encryption At Rest Options. \n</p>\n",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [
  {
    "beanStyleGetterMethodName": "getEnabled",
    "beanStyleSetterMethodName": "setEnabled",
    "c2jName": "Enabled",
    "c2jShape": "Boolean",
    "defaultConsumerFluentSetterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p><p>This is a convenience that creates an instance of the \{@link Boolean.Builder\} avoiding the need to create one manually via \{@link Boolean#builder()\}. When the \{@link Consumer\} completes, \{@link Boolean.Builder#build()\} is called immediately and its result is passed to \{@link #enabled(Boolean)\}.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #enabled(Boolean)\n",
    "deprecated": false,
    "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "enabled",
    "fluentSetterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>
\n@see enabled(Boolean)\n",
    "fluentSetterMethodName": "enabled",
    "getterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>
\n@return Specifies the option to enable Encryption At Rest.\n",
    "getterModel": {
      "returnType": "Boolean",
      "documentation": null
    },
    "http": {
      "additionalMarshallingPath": null,
      "additionalUnmarshallingPath": null,
      "flattened": false,
      "greedy": false,
      "header": false,
      "isPayload": false,
      "isStreaming": false,
      "location": null,
      "marshallLocation": "PAYLOAD",
      "marshallLocationName": "Enabled",
      "queryString": false,
      "statusCode": false,
      "unmarshallLocationName": "Enabled",
      "uri": false
    }
  }
]
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "Enabled",
"sensitive": false,
"setterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>
@param enabled Specifies the option to enable Encryption At Rest.",
"setterMethodName": "setEnabled",
"setterModel": {
  "variableDeclarationType": "Boolean",
  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"xmlnsNamespaceUri": null

"beanStyleGetterMethodName": "getKmsKeyId",
"beanStyleSetterMethodName": "setKmsKeyId",
"c2jName": "KmsKeyId",
"c2jShape": "KmsKeyId",
"defaultConsumerFluentSetterDocumentation": "<p> Specifies the KMS Key ID for Encryption At Rest
  options.</p>
@param kmsKeyId a consumer that will call methods on
  @link String.Builder\n  @return Returns a reference to this object
  so that method calls can be chained together.
@see #kmsKeyId(String)",
"deprecated": false,
"documentation": "<p> Specifies the KMS Key ID for Encryption At Rest.
  options.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "kmsKeyId",
"fluentSetterMethodName" : "kmsKeyId",
"fluentSetterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
@param kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
@return Specifies the KMS Key ID for Encryption At Rest options.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "KmsKeyId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "KmsKeyId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "KmsKeyId",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
@param kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
@return Specifies the KMS Key ID for Encryption At Rest options.",
"setterMethodName" : "setKmsKeyId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String"}
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "kmsKeyId",
  "variableType": "String",
  "documentation": "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null}
],
"membersAsMap": {
  "Enabled": {
    "beanStyleGetterMethodName": "getEnabled",
    "beanStyleSetterMethodName": "setEnabled",
    "c2jName": "Enabled",
    "c2jShape": "Boolean",
    "defaultConsumerFluentSetterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>\nThis is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean.Builder#builder()}.\nWhen the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #enabled(Boolean)}.\n@see #enabled(Boolean)\n@deprecated" : false,
  "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "enabled",
  "fluentSetterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@deprecated" : false,
  "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "enabled",
  "fluentSetterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@deprecated" : false,
  "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "enabled",
  "fluentSetterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@deprecated" : false,
  "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "enabled",
  "fluentSetterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@deprecated" : false,
  "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@endpointDiscoveryId": false,
  "enumType": null,
{"additionalMarshallingPath":null,
"additionalUnmarshallingPath":null,
"flattened":false,
"greedy":false,
"header":false,
"isPayload":false,
"isStreaming":false,
"location":null,
"marshallLocation":"PAYLOAD",
"marshallLocationName":"Enabled",
"queryString":false,
"statusCode":false,
"unmarshallLocationName":"Enabled",
"uri":false
},
"idempotencyToken":false,
"isBinary":false,
"jsonValue":false,
"list":false,
"listModel":null,
"map":false,
"mapModel":null,
"marshallingType":"BOOLEAN",
"name":"Enabled",
"_sensitive":false,
"setterDocumentation":"<p>Specifies the option to enable Encryption At Rest.</p>
@param enabled Specifies the option to enable Encryption At Rest.",
"setterMethodName":"setEnabled",
"setterModel":{
  "variableDeclarationType":"Boolean",
  "variableName":"enabled",
  "variableType":"Boolean",
  "documentation":null,
  "simpleType":"Boolean",
  "variableSetterType":"Boolean"
},
"simple":true,
"timestampFormat":null,
"variable":{
  "variableDeclarationType":"Boolean",
  "variableName":"enabled",
  "variableType":"Boolean",
  "documentation":"<p>Specifies the option to enable Encryption At Rest.</p>",
  "simpleType":"Boolean",
  "variableSetterType":"Boolean"
},
"xmlNameSpaceUri":null}
"KmsKeyId" : {
  "beanStyleGetterMethodName" : "getKmsKeyId",
  "beanStyleSetterMethodName" : "setKmsKeyId",
  "c2jName" : "KmsKeyId",
  "c2jShape" : "KmsKeyId",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options. </p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "kmsKeyId",
  "fluentSetterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
  "fluentSetterMethodName" : "kmsKeyId",
  "getterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
  "getterModel" : {
    "returnType" : "String",
    "documentation" : "null"
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flatned" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "KmsKeyId",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "KmsKeyId",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "KmsKeyId",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
@param
kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.",
"setterMethodName" : "setKmsKeyId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String",
  "documentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getEnabled",
    "beanStyleSetterMethodName" : "setEnabled",
    "c2jName" : "Enabled",
    "c2jShape" : "Boolean",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the option to enable Encryption At Rest.</p>
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via @{link Boolean#builder()}.

When the {@link Consumer} completes, {@link Boolean#build()} is called immediately and its result is passed to {@link #enabled(Boolean)}.\n\n@see #enabled(Boolean)",
  "deprecated" : false,
  "documentation" : "<p> Specifies the option to enable Encryption At Rest.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
Specifies the option to enable Encryption At Rest.

@param enabled
Specifies the option to enable Encryption At Rest.

@return Returns a reference to this object so that method calls can be chained together.

Specifies the option to enable Encryption At Rest.

@return Specifies the option to enable Encryption At Rest.

public boolean isEnabled() {
    return getEnabled();
}

public void setEnabled(boolean enabled) {
    putEnabled(enabled);
}

Additional Marshalling Path: "none"
Additional Unmarshalling Path: "none"
Is Payload: false
Is Streaming: false
Is Binary: false
Is JSON Value: false
Is List: false
Is Map: false
Marshalling Type: BOOLEAN
Name: Enabled
Sensitive: false
Setter Documentation: "Specifies the option to enable Encryption At Rest."
Setter Method Name: "setEnabled"
Setter Model: {
    variableDeclarationType: "Boolean",
    variableName: "enabled",
    variableType: "Boolean",
    documentation: null
}

"simpleType": "Boolean",
"variableDeclarationType": "Boolean",
"variableName": "enabled",
"variableType": "Boolean",
"documentation": "<p>Specifies the option to enable Encryption At Rest.</p>",
"simpleType": "Boolean",
"variableName": "enabled",
"variableType": "Boolean",
"documentation": "<p>Specifies the option to enable Encryption At Rest.</p>",
"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>",
  "simpleType": true,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "Boolean",
    "variableName": "enabled",
    "variableType": "Boolean",
    "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>",
    "simpleType": "Boolean",
    "variableName": "enabled",
    "variableType": "Boolean",
    "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>",
    "xmlNameSpaceUri": null
  },
  "beanStyleGetterMethodName": "getKmsKeyId",
  "beanStyleSetterMethodName": "setKmsKeyId",
  "c2jName": "KmsKeyId",
  "c2jShape": "KmsKeyId",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the KMS Key ID for Encryption At Rest options.</p>
This is a convenience that creates an instance of the {<link String.Builder>} avoiding the need to
create one manually via {@link String.Builder().}
When the {<link Consumer>} completes, {<link String.Builder.build()}) is called immediately and its result is passed to {<link KmsKeyId(String)}.<param kmsKeyId a consumer that will call methods on {<link String.Builder.build()>}
@returns Returns a reference to this object
so that method calls can be chained together.<returns see "KmsKeyId(String)"},
  "deprecated": false,
  "documentation": "<p>Specifies the KMS Key ID for Encryption At Rest options.</p>",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "kmsKeyId",
  "fluentSetterDocumentation": "<p>Specifies the KMS Key ID for Encryption At Rest options.</p>
@param kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.<returns class="returns">Returns a reference to this object
so that method calls can be chained together.
</returns>
}@param kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.<returns class="returns">Returns a reference to this object
so that method calls can be chained together.
</returns>
挖数kmsKeyId a consumer that will call methods on {<link String.Builder.build()})
@returns Returns a reference to this object
so that method calls can be chained together.<returns see "KmsKeyId(String)"},
  "getterDocumentation": "<p>Specifies the KMS Key ID for Encryption At Rest options.</p>
@returns Specifies the KMS Key ID for Encryption At Rest options.
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "KmsKeyId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "KmsKeyId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "KmsKeyId",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
@param
kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
",
"setterMethodName" : "setKmsKeyId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String",
  "documentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}]
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "EncryptionAtRestOptions",
"simpleMethod" : false,
"unmarshaller" : {
   "flattened" : false,
   "resultWrapper" : null
},
"variable" : {
   "variableDeclarationType" : "EncryptionAtRestOptions",
   "variableName" : "encryptionAtRestOptions",
   "variableType" : "EncryptionAtRestOptions",
   "documentation" : null,
   "simpleType" : "EncryptionAtRestOptions",
   "variableSetterType" : "EncryptionAtRestOptions"
},
"wrapper" : false
},
"EncryptionAtRestOptionsStatus" : {
   "c2jName" : "EncryptionAtRestOptionsStatus",
   "customization" : {
      "artificialResultWrapper" : null,
      "skipGeneratingMarshaller" : false,
      "skipGeneratingModelClass" : false,
      "skipGeneratingUnmarshaller" : false,
      "staxTargetDepthOffset" : 0
   },
   "deprecated" : false,
   "documentation" : "<p> Status of the Encryption At Rest options for the specified Elasticsearch domain.</p>",
   "endpointDiscovery" : null,
   "enums" : null,
   "errorCode" : null,
   "event" : false,
   "eventStream" : false,
   "explicitEventPayloadMember" : null,
   "hasHeaderMember" : false,
   "hasPayloadMember" : false,
   "hasStatusCodeMember" : false,
   "hasStreamingMember" : false,
   "httpStatusCode" : null,
   "marshaller" : null,
   "marshallers" : [{
      "beanStyleGetMethod" : "getOptions",
      "beanStyleSetterGetMethod" : "setOptions",
      "c2jName" : "Options",
      "c2jShape" : "EncryptionAtRestOptions",
      "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>
      
      This is a convenience that creates an instance of the EncryptionAtRestOptions.Builder avoiding the need to create one manually via EncryptionAtRestOptions#builder().
      
      When the Consumer completes, ...
      
      When the EncryptionAtRestOptions complete ..., ...
   },
   ...}
EncryptionAtRestOptions.Builder#build()} is called immediately and its result is passed to [options(EncryptionAtRestOptions)].

@see #options(EncryptionAtRestOptions)

@deprecated

## EncryptionAtRestOptions

### Options

- DESCRIPTION (null)

### Documentation

- [options](#options(EncryptionAtRestOptions))

- [deprecated](#deprecated)

- [endpointDiscoveryId](#endpointDiscoveryId)

- [enumType](#enumType)

- [eventHeader](#eventHeader)

- [eventPayload](#eventPayload)

- [fluentEnumGetterMethodName](#fluentEnumGetterMethodName)

- [fluentEnumSetterMethodName](#fluentEnumSetterMethodName)

- [fluentGetterMethodName](#fluentGetterMethodName)

- [fluentSetterDocumentation](#fluentSetterDocumentation)

- [getterDocumentation](#getterDocumentation)

- [getterModel](#getterModel)

- [http](#http)

- [idempotencyToken](#idempotencyToken)

- [isBinary](#isBinary)

- [jsonValue](#jsonValue)

- [list](#list)

- [listModel](#listModel)

- [map](#map)

- [mapModel](#mapModel)

- [marshallingType](#marshallingType)

- [name](#name)

- [updatedAt](#updatedAt)

- [url](#url)

- [uri](#uri)

- [uriTemplate](#uriTemplate)

- [uriVariables](#uriVariables)

- [version](#version)

- [visibility](#visibility)

- [wires](#wires)

- [wrapRequired](#wrapRequired)

### Additional Marshalling Path

- [additionalMarshallingPath](#additionalMarshallingPath)

### Additional Unmarshalling Path

- [additionalUnmarshallingPath](#additionalUnmarshallingPath)

### Flattened

- [flattened](#flattened)

### Greedy

- [greedy](#greedy)

### Header

- [header](#header)

### Is Payload

- [isPayload](#isPayload)

### Is Streaming

- [isStreaming](#isStreaming)

### Location

- [location](#location)

### Marshall Location

- [marshallLocation](#marshallLocation)

### Marshall Location Name

- [marshallLocationName](#marshallLocationName)

### Query String

- [queryString](#queryString)

### Status Code

- [statusCode](#statusCode)

### Unmarshall Location Name

- [unmarshallLocationName](#unmarshallLocationName)

### Idempotency Token

- [idempotencyToken](#idempotencyToken)

### Is Binary

- [isBinary](#isBinary)

### JSON Value

- [jsonValue](#jsonValue)

### List

- [list](#list)

### List Model

- [listModel](#listModel)

### Map

- [map](#map)

### Map Model

- [mapModel](#mapModel)

### Marshalling Type

- [marshallingType](#marshallingType)

### Name

- [name](#name)

### Updated At

- [updatedAt](#updatedAt)

### URL

- [url](#url)

### URI

- [uri](#uri)

### URI Template

- [uriTemplate](#uriTemplate)

### URI Variables

- [uriVariables](#uriVariables)

### Version

- [version](#version)

### Visibility

- [visibility](#visibility)

### Wires

- [wires](#wires)

### Wrap Required

- [wrapRequired](#wrapRequired)
"setterDocumentation" : "<p>Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>\n@param options Specifies the Encryption At Rest options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
"variableDeclarationType" : "EncryptionAtRestOptions",
"variableName" : "options",
"variableType" : "EncryptionAtRestOptions",
"documentation" : null,
"simpleType" : "EncryptionAtRestOptions",
"variableSetterType" : "EncryptionAtRestOptions"
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"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "EncryptionAtRestOptions",
"variableName" : "options",
"variableType" : "EncryptionAtRestOptions",
"documentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>",
"simpleType" : "EncryptionAtRestOptions",
"variableSetterType" : "EncryptionAtRestOptions"
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"xmlNameSpaceUri" : null
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"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>\n\nThis is a convenience that creates an instance of the { @link OptionStatus.Builder} avoiding the need to create one manually via { @link OptionStatus#builder()} \n\nWhen the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link #status(OptionStatus)} \n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>
\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. </p>\n@return Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. ",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "getStatusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. </p>\n@param status Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. ",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
} 
",
"membersAsMap" : {
"Options" : {
  "beanStyleGetterMethodName" : "getOptions",
  "beanStyleSetterMethodName" : "setOptions",
  "c2jName" : "Options",
  "c2jShape" : "EncryptionAtRestOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>"
This is a convenience that creates an instance of the @link EncryptionAtRestOptions.Builder avoiding the need to create one manually via @link EncryptionAtRestOptions#builder(). When the @link Consumer completes, @link EncryptionAtRestOptions.Builder#build() is called immediately and its result is passed to @link EncryptionAtRestOptions.Builder#build().

@param options a consumer that will call methods on @link EncryptionAtRestOptions.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #options(EncryptionAtRestOptions)

"deprecated" : false,
"documentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>"

@param options Specifies the Encryption At Rest options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.
@see EncryptionAtRestOptions

"getterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>"

@return Specifies the Encryption At Rest options for the specified Elasticsearch domain.
"getterModel" : {
  "returnType" : "EncryptionAtRestOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Options",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Options",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Options",
"setterDocumentation": "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain. </p>
@param options Specifies the Encryption At Rest options for the specified Elasticsearch domain."
,"setterMethodName": "setOptions",
"setterModel": {
  "variableDeclarationType": "EncryptionAtRestOptions",
  "variableName": "options",
  "variableType": "EncryptionAtRestOptions",
  "documentation": null,
  "simpleType": "EncryptionAtRestOptions",
  "variableSetterType": "EncryptionAtRestOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EncryptionAtRestOptions",
  "variableName": "options",
  "variableType": "EncryptionAtRestOptions",
  "documentation": "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain. </p>"
,"simpleType": "EncryptionAtRestOptions",
  "variableSetterType": "EncryptionAtRestOptions"
},
"xmlNameSpaceUri": null
},
"Status": {
  "beanStyleGetterMethodName": "getStatus"
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}. When the {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link #status(OptionStatus)}.<p>@param status a consumer that will call methods on {@link OptionStatus.Builder}@return Returns a reference to this object so that method calls can be chained together.<p>@see #status(OptionStatus)",
"deprecated": false,
"documentation": "<p>Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>
@endpDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "status",
"fluentSetterDocumentation": "<p>Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.<p>@return Returns a reference to this object so that method calls can be chained together.</p>
"fluentSetterMethodName": "status",
"getterDocumentation": "<p>Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>
@return Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.";
"getterModel": {
 "returnType": "OptionStatus",
 "documentation": null
 },
"http": {
 "additionalMarshallingPath": null,
 "additionalUnmarshallingPath": null,
 "flattened": false,
 "greedy": false,
 "header": false,
 "isPayload": false,
 "isStreaming": false,
 "location": null,
 "marshallLocation": "PAYLOAD",
 "marshallLocationName": "Status",
 "queryString": false,
 "statusCode": false,
 "unmarshallLocationName": "Status",
 "uri": false
 },
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
"sensitive": false,
"setterDocumentation": "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. </p>@param status Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.",
"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. </p>",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"xmlNameSpaceUri": null
},
"nonStreamingMembers": [
  {
  "beanStyleGetterMethodName": "getOptions",
  "beanStyleSetterMethodName": "setOptions",
  "c2jName": "Options",
  "c2jShape": "EncryptionAtRestOptions",
  "defaultConsumerFluentSetterDocumentation": "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain. </p>\nThis is a convenience that creates an instance of the { @link EncryptionAtRestOptions.Builder} avoiding the need to create one manually via { @link EncryptionAtRestOptions#builder()}.\n\nWhen the { @link Consumer} completes, { @link EncryptionAtRestOptions.Builder#build()} is called immediately and its result is passed to { @link #options(EncryptionAtRestOptions)}\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #options(EncryptionAtRestOptions)"
}]}
"deprecated" : false,
"documentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>
@param options Specifies the Encryption At Rest options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>
@return Specifies the Encryption At Rest options for the specified Elasticsearch domain.",
"getterModel" : {
"returnType" : "EncryptionAtRestOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>
@param options Specifies the Encryption At Rest options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions"
"setterModel" : {
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    "variableName" : "options",
    "variableType" : "EncryptionAtRestOptions",
    "documentation" : null,
    "simpleType" : "EncryptionAtRestOptions",
    "variableSetterType" : "EncryptionAtRestOptions"
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"simple" : false,
"timestampFormat" : null,
"variable" : {
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    "variableName" : "options",
    "variableType" : "EncryptionAtRestOptions",
    "documentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link #status(OptionStatus)}.
@param status a consumer that will call methods on {@link OptionStatus.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
    "deprecated" : false,
    "documentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "status",
    "fluentSetterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>
@link OptionStatus.Builder#build() is called immediately and its result is passed to {@link #status(OptionStatus)}.
@param status a consumer that will call methods on {@link OptionStatus.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
    "getterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>
@link OptionStatus.Builder#build() is called immediately and its result is passed to {@link #status(OptionStatus)}.
@param status a consumer that will call methods on {@link OptionStatus.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
    "xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link #status(OptionStatus)}.
@param status a consumer that will call methods on {@link OptionStatus.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>",
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    "documentation" : null
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    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Status",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Status",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>@param status Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain."",
"setterMethodName" : "setStatus",
"setterModel" : {
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    "documentation" : null,
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
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    "variableName" : "status",
    "variableType" : "OptionStatus"
"documentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. </p>",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
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"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "EncryptionAtRestOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "EncryptionAtRestOptionsStatus",
"variableName" : "encryptionAtRestOptionsStatus",
"variableType" : "EncryptionAtRestOptionsStatus",
"documentation" : null,
"simpleType" : "EncryptionAtRestOptionsStatus",
"variableSetterType" : "EncryptionAtRestOptionsStatus"
},
"wrapper" : false
},
"GetCompatibleElasticsearchVersionsRequest" : {
"c2jName" : "GetCompatibleElasticsearchVersionsRequest",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> Container for request parameters to <code><a>GetCompatibleElasticsearchVersions</a> </code> operation. </p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
  "action" : "GetCompatibleElasticsearchVersions",
  "locationName" : null,
  "requestUri" : "/2015-01-01/es/compatibleVersions",
  "target" : null,
  "verb" : "GET",
  "xmlNameSpaceUri" : null
},
"members" : [
  {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object. This is a convenience that creates an instance of the [ @link String.Builder ] avoiding the need to create one manually via [ @link String#builder() ]. When the [ @link Consumer ] completes, [ @link String.Builder#build() ] is called immediately and its result is passed to [ @link #domainName(String) ].
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "domainName",
    "fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
    "@param domainName The new value for the DomainName property for this object."
    "@return Returns a reference to this object so that method calls can be chained together."
    "@see #domainName(String)"
    "fluentSetterMethodName" : "domainName",
    "getterDocumentation" : "Returns the value of the DomainName property for this object.
    "@return The value of the DomainName property for this object."
    "getterModel" : {
      "returnType" : "String",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : "querystring" 
    }
  }
}
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "domainName",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "domainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object.\n\n@annotation\n\n@param domainName
The new value for the DomainName property for this object.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} ].
"membersAsMap" : {
  "DomainName" : {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\n\nThis is a convenience that creates an instance of the [ @link String.Builder ] avoiding the need to create
one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}.

When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}.

- param
  - domainName a consumer that will call methods on \{@link String.Builder\}.

- @return
  - Returns a reference to this object so that method calls can be chained together.

- @see
  - #domainName(String)

- "deprecated": false,
- "documentation": "",
- "endpointDiscoveryId": false,
- "enumType": null,
- "eventHeader": false,
- "eventPayload": false,
- "fluentEnumGetterMethodName": null,
- "fluentEnumSetterMethodName": null,
- "fluentGetterMethodName": "domainName",
- "fluentSetterDocumentation": "Sets the value of the DomainName property for this object."
- "param
  - domainName The new value for the DomainName property for this object.
  - @return
  - Returns a reference to this object so that method calls can be chained together.

- "getterDocumentation": "Returns the value of the DomainName property for this object."
- "getterModel": {
  - "returnType": "String",
  - "documentation": null
}
- "http": {
  - "additionalMarshallingPath": null,
  - "additionalUnmarshallingPath": null,
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  - "greedy": false,
  - "header": false,
  - "isPayload": false,
  - "isStreaming": false,
  - "location": "querystring",
  - "marshallLocation": "QUERY_PARAM",
  - "marshallLocationName": "domainName",
  - "queryString": true,
  - "statusCode": false,
  - "unmarshallLocationName": "domainName",
  - "uri": false
}
- "idempotencyToken": false,
- "isBinary": false,
- "jsonValue": false,
- "list": false,
- "listModel": null,
- "map": false,
- "mapModel": null,
- "marshallingType": "STRING",
- "name": "DomainName"
"setterDocumentation" : "Sets the value of the DomainName property for this object.

@param domainName The new value for the DomainName property for this object.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object.

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.Builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to String#builder().

@deprecated This method is not recommended for use in new code.

@see #domainName(String)

@return Returns a reference to this object so that method calls can be chained together.

@link String.Builder#build()

@link String.Builder#builder()

@link String#builder()

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@link String.Builder#builder()

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@link String.Builder#build()
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.\n\n@returns The value of the DomainName property for this object."
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "domainName",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "domainName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the DomainName property for this object.\n\n@param domainName The new value for the DomainName property for this object."
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String"
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
] },
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "GetCompatibleElasticsearchVersionsRequest",
"simpleMethod" : true,
"unmarshaller" : null,
"variable" : {
"variableDeclarationType" : "GetCompatibleElasticsearchVersionsRequest",
"variableName" : "getCompatibleElasticsearchVersionsRequest",
"variableType" : "GetCompatibleElasticsearchVersionsRequest",
"documentation" : null,
"simpleType" : "GetCompatibleElasticsearchVersionsRequest",
"variableSetterType" : "GetCompatibleElasticsearchVersionsRequest"
},
"wrapper" : false
},
"GetCompatibleElasticsearchVersionsResponse" : {
"c2jName" : "GetCompatibleElasticsearchVersionsResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "Container for response returned by <code><a>GetCompatibleElasticsearchVersions</a> </code> operation. &lt;/p&gt;",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
null
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CompatibleElasticsearchVersions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CompatibleElasticsearchVersions",
"uri" : false,

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "CompatibleVersionsMap",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the @link CompatibleVersionsMap.Builder avoiding the need to create one manually via @link CompatibleVersionsMap.Builder().

When the @link Consumer completes, @link CompatibleVersionsMap.Builder.build() is called immediately and its result is passed to @link #member(CompatibleVersionsMap).@n

@see #member(CompatibleVersionsMap)
@n
@return Returns a reference to this object so that method calls can be chained together.
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@n
@return Returns a reference to this object so that method calls can be chained together.$",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

The value of the Member property for this object.$",
"getterModel" : {
  "returnType" : "CompatibleVersionsMap",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"_sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "CompatibleVersionsMap",
  "variableName" : "member",
  "variableType" : "CompatibleVersionsMap",
  "documentation" : null,
  "simpleType" : "CompatibleVersionsMap",
  "variableSetterType" : "CompatibleVersionsMap"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CompatibleVersionsMap",
  "variableName" : "member",
  "variableType" : "CompatibleVersionsMap",
  "documentation" : "",
  "simpleType" : "CompatibleVersionsMap",
  "variableSetterType" : "CompatibleVersionsMap"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "CompatibleVersionsMap"
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "CompatibleVersionsMap",
"templateImplType" : "java.util.ArrayList<CompatibleVersionsMap>",
"templateType" : "java.util.List<CompatibleVersionsMap>",
}
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "CompatibleElasticsearchVersions",
"simple" : false,
"setterDocumentation" : "&lt;p&gt; A map of compatible Elasticsearch versions returned as part of the &lt;code&gt;&lt;a&gt;GetCompatibleElasticsearchVersions&lt;/a&gt; &lt;/code&gt; operation. &lt;/p&gt;&lt;p&gt;\n@param compatibleElasticsearchVersions A map of compatible Elasticsearch versions returned as part of the &lt;code&gt;&lt;a&gt;GetCompatibleElasticsearchVersions&lt;/a&gt; &lt;/code&gt; operation.&lt;/p&gt;

"setterMethodName" : "setCompatibleElasticsearchVersions",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<CompatibleVersionsMap>",
  "variableName" : "compatibleElasticsearchVersions",
  "variableType" : "java.util.List<CompatibleVersionsMap>",
  "documentation" : null,
  "simpleType" : "List<CompatibleVersionsMap>",
  "variableSetterType" : "java.util.Collection<CompatibleVersionsMap>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<CompatibleVersionsMap>",
  "variableName" : "compatibleElasticsearchVersions",
  "variableType" : "java.util.List<CompatibleVersionsMap>",
  "documentation" : "&lt;p&gt; A map of compatible Elasticsearch versions returned as part of the &lt;code&gt;&lt;a&gt;GetCompatibleElasticsearchVersions&lt;/a&gt; &lt;/code&gt; operation. &lt;/p&gt;&lt;p&gt;\n@param compatibleElasticsearchVersions A map of compatible Elasticsearch versions returned as part of the &lt;code&gt;&lt;a&gt;GetCompatibleElasticsearchVersions&lt;/a&gt; &lt;/code&gt; operation.&lt;/p&gt;

"setterMethodName" : "setCompatibleElasticsearchVersions",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<CompatibleVersionsMap>",
  "variableName" : "compatibleElasticsearchVersions",
  "variableType" : "java.util.List<CompatibleVersionsMap>",
  "documentation" : "&lt;p&gt; A map of compatible Elasticsearch versions returned as part of the &lt;code&gt;&lt;a&gt;GetCompatibleElasticsearchVersions&lt;/a&gt; &lt;/code&gt; operation. &lt;/p&gt;&lt;p&gt;\n@param compatibleElasticsearchVersions A map of compatible Elasticsearch versions returned as part of the &lt;code&gt;&lt;a&gt;GetCompatibleElasticsearchVersions&lt;/a&gt; &lt;/code&gt; operation.&lt;/p&gt;

"xmlNameSpaceUri" : null
}]},
"membersAsMap" : {
  "CompatibleElasticsearchVersions" : {
    "beanStyleGetterMethodName" : "getCompatibleElasticsearchVersions",
    "beanStyleSetterMethodName" : "setCompatibleElasticsearchVersions",
    "c2jName" : "CompatibleElasticsearchVersions",
    "c2jShape" : "CompatibleElasticsearchVersionsList",
    "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt; A map of compatible Elasticsearch versions returned as part of the &lt;code&gt;&lt;a&gt;GetCompatibleElasticsearchVersions&lt;/a&gt; &lt;/code&gt; operation. &lt;/p&gt;&lt;p&gt;\nThis is a convenience that creates an instance of the { @link List&lt;CompatibleVersionsMap.&gt;Builder} avoiding the need to create one
When the [Consumer] completes, [
@link List<CompatibleVersionsMap>.Builder#build() is called immediately and its result is passed to
@link #compatibleElasticsearchVersions(List<CompatibleVersionsMap>)]
@see #compatibleElasticsearchVersions(List<CompatibleVersionsMap>)

@returns Returns a reference to this object so that method calls can be chained together.

A map of compatible Elasticsearch versions returned as part of the <code>GetCompatibleElasticsearchVersions</code> operation.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

A map of compatible Elasticsearch versions returned as part of the <code>GetCompatibleElasticsearchVersions</code> operation.

A map of compatible Elasticsearch versions returned as part of the <code>GetCompatibleElasticsearchVersions</code> operation.
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "CompatibleVersionsMap",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [CompatibleVersionsMap.Builder] avoiding the need to create one manually via [CompatibleVersionsMap#builder()]. When the [Consumer] completes, [CompatibleVersionsMap.Builder#build()] is called immediately and its result is passed to [CompatibleVersionsMap].

@param member a consumer that will call methods on [CompatibleVersionsMap.Builder]
@return Returns a reference to this object so that method calls can be chained together.

@see #member(CompatibleVersionsMap)",
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "member",
  "fluentSetterDocumentation": "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.
",
  "fluentSetterMethodName": "member",
  "getterDocumentation": "Returns the value of the Member property for this object.

@return The value of the Member property for this object.
",
  "getterModel": {
    "returnType": "CompatibleVersionsMap",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "member"}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.,",
"setterMethodName" : "setMember",
"setterModel" : {
"variableDeclarationType" : "CompatibleVersionsMap",
"variableName" : "member",
"variableType" : "CompatibleVersionsMap",
"documentation" : null,
"simpleType" : "CompatibleVersionsMap",
"variableSetterType" : "CompatibleVersionsMap"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "CompatibleVersionsMap",
"variableName" : "member",
"variableType" : "CompatibleVersionsMap",
"documentation" : "",
"simpleType" : "CompatibleVersionsMap",
"variableSetterType" : "CompatibleVersionsMap"
},
"xmlNameSpaceUri" : null
],
"memberLocationName" : null,
"memberType" : "CompatibleVersionsMap",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "CompatibleVersionsMap",
"templateImplType" : "java.util.ArrayList<CompatibleVersionsMap>",
"templateType" : "java.util.List<CompatibleVersionsMap>"
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "CompatibleElasticsearchVersions",
"sensitive" : false,
"setterDocumentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code>GetCompatibleElasticsearchVersions</code> operation. </p>
@param compatibleElasticsearchVersions A map of compatible Elasticsearch versions returned as part of the <code>GetCompatibleElasticsearchVersions</code> operation.
"setterMethodName" : "setCompatibleElasticsearchVersions",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<CompatibleVersionsMap>",
  "variableName" : "compatibleElasticsearchVersions",
  "variableType" : "java.util.List<CompatibleVersionsMap>",
  "documentation" : null,
  "simpleType" : "List<CompatibleVersionsMap>",
  "variableSetterType" : "java.util.Collection<CompatibleVersionsMap>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<CompatibleVersionsMap>",
  "variableName" : "compatibleElasticsearchVersions",
  "variableType" : "java.util.List<CompatibleVersionsMap>",
  "documentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code>GetCompatibleElasticsearchVersions</code> operation. </p>
"simpleType" : "List<CompatibleVersionsMap>",
  "variableSetterType" : "java.util.Collection<CompatibleVersionsMap>"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [
  "beanStyleGetterMethodName" : "getCompatibleElasticsearchVersions",
  "beanStyleSetterMethodName" : "setCompatibleElasticsearchVersions",
  "c2jName" : "CompatibleElasticsearchVersions",
  "c2jShape" : "CompatibleElasticsearchVersionsList",
  "defaultConsumerFluentSetterDocumentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code>GetCompatibleElasticsearchVersions</code> operation. </p>
This is a convenience that creates an instance of the [List<CompatibleVersionsMap>.Builder]避免的need to create one manually via [List<CompatibleVersionsMap>#builder()].
When the [Consumer] completes, [List<CompatibleVersionsMap>.Builder#build] is called immediately and its result is passed to [List<CompatibleVersionsMap>]
A consumer that will call methods on [List<CompatibleVersionsMap>.Builder] a reference to this object so that method calls can be chained together.
@see #compatibleElasticsearchVersions(List<CompatibleVersionsMap>)
  "deprecated" : false,
  "documentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code>
GetCompatibleElasticsearchVersions</a> operation.

```
@end
```

## Returns

A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation.

```
@return Returns a reference to this object so that method calls can be chained together.
```

## Parameters

`compatibleElasticsearchVersions`

A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation.

```
@param compatibleElasticsearchVersions
```

## Documentation

A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

```
@return A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation.
```

#### http

```
```

#### idempotencyToken

```
false
```

#### isBinary

```
false
```

#### jsonValue

```
false
```

#### list

```
true
```

#### listModel

```
{  "implType" : "java.util.ArrayList",  "interfaceType" : "java.util.List",  "listMemberModel" : {    "beanStyleGetterMethodName" : "getMember",    "implType" : "java.util.ArrayList",    "interfaceType" : "java.util.List",    "listMemberModel" : {      "implementation" : "CompatibleVersionMap"    }}}
```

#### fluentSetterMethodName

```
compatibleElasticsearchVersions
```

#### fluentGetterMethodName

```
compatibleElasticsearchVersions
```

#### documentation

```
A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation.
```

#### fluentSetterDocumentation

```
<p> A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation. </p>
```

#### fluentGetterDocumentation

```
<p> A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation. </p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

```
```

#### getterModel

```
{  "returnType" : "java.util.List<CompatibleVersionsMap>",  "documentation" : null}
```

#### getterDocumentation

```
A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

```
```

#### getterModel

```
{  "returnType" : "java.util.List<CompatibleVersionsMap>",  "documentation" : null}
```

#### getterDocumentation

```
A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

```
```

#### getterModel

```
{  "returnType" : "java.util.List<CompatibleVersionsMap>",  "documentation" : null}
```

#### getterDocumentation

```
A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

```
```

#### getterModel

```
{  "returnType" : "java.util.List<CompatibleVersionsMap>",  "documentation" : null}
```

#### getterDocumentation

```
A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

```
```

#### getterModel

```
{  "returnType" : "java.util.List<CompatibleVersionsMap>",  "documentation" : null}
```

#### getterDocumentation

```
A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearchVersions operation.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

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#### getterModel

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#### getterModel

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#### getterDocumentation

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#### getterModel

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#### getterDocumentation

```
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#### getterModel

```
{  "returnType" : "java.util.List<CompatibleVersionsMap>",  "documentation" : null}
```

#### getterDocumentation

```
A map of compatible Elasticsearch versions returned as part of the GetCompatibleElasticsearch Versions operation.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

```
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"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "CompatibleVersionsMap",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [link CompatibleVersionsMap.Builder] avoiding the need to create one manually via [link CompatibleVersionsMap#builder()]. When the [link Consumer] completes, [link CompatibleVersionsMap.Builder#build()] is called immediately and its result is passed to [link #member(Compatible VersionsMap)].
@returns Returns a reference to this object so that method calls can be chained together.
@see #member(CompatibleVersionsMap)",
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"eventHeader" : false,
"eventPayload" : false,
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"fluuentEnumSetterMethodName" : null,
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"fluuentSetterMethodName" : "member",
"fluuentSetterDocumentation" : "Sets the value of the Member property for this object.
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"getterDocumentation" : "Returns the value of the Member property for this object.
@returns The value of the Member property for this object.",
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"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
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"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
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"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
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"setterModel" : {
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  "variableType" : "CompatibleVersionsMap",
  "documentation" : null,
  "simpleType" : "CompatibleVersionsMap",
  "variableSetterType" : "CompatibleVersionsMap"
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"simple" : false,
"timestampFormat" : null,
"variable" : {
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  "documentation" : null,
  "simpleType" : "CompatibleVersionsMap",
  "variableSetterType" : "CompatibleVersionsMap"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "CompatibleVersionsMap",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
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"templateImplType" : "java.util.ArrayList<CompatibleVersionsMap>",
"templateType" : "java.util.List<CompatibleVersionsMap>"
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"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "CompatibleElasticsearchVersions",
"sensitive" : false,
"setterDocumentation" : "<p>A map of compatible Elasticsearch versions returned as part of the <code>
<a>GetCompatibleElasticsearchVersions</a> </code> operation. </p>\n\n@param compatibleElasticsearchVersions A map of compatible Elasticsearch versions returned as part of the <code>
<a>GetCompatibleElasticsearchVersions</a> operation.

"setterMethodName" : "setCompatibleElasticsearchVersions",
"setterModel" : {
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"variableName" : "compatibleElasticsearchVersions",
"variableType" : "java.util.List<CompatibleVersionsMap>",
"documentation" : null,
"simpleType" : "List<CompatibleVersionsMap>",
"variableSetterType" : "java.util.Collection<CompatibleVersionsMap>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
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"variableName" : "compatibleElasticsearchVersions",
"variableType" : "java.util.List<CompatibleVersionsMap>",
"documentation" : "A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation."
"simpleType" : "List<CompatibleVersionsMap>",
"variableSetterType" : "java.util.Collection<CompatibleVersionsMap>"
},
"xmlNameSpaceUri" : null
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"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "GetCompatibleElasticsearchVersionsResponse",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "GetCompatibleElasticsearchVersionsResponse",
"variableName" : "getCompatibleElasticsearchVersionsResponse",
"variableType" : "GetCompatibleElasticsearchVersionsResponse",
"documentation" : null,
"simpleType" : "GetCompatibleElasticsearchVersionsResponse",
"variableSetterType" : "GetCompatibleElasticsearchVersionsResponse"
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"wrapper" : false
"GetUpgradeHistoryRequest" : {
"c2jName" : "GetUpgradeHistoryRequest",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> Container for request parameters to <code> <a>GetUpgradeHistory</a> </code>
operation. </p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatuscode" : null,
"marshaller" : {
 "action" : "GetUpgradeHistory",
 "locationName" : null,
 "requestUri" : "/2015-01-01/es/upgradeDomain/{DomainName}/history",
 "target" : null,
 "verb" : "GET",
 "xmlNameSpaceUri" : null
 },
"members" : [ {
 "beanStyleGetterMethodName" : "getDomainName",
 "beanStyleSetterMethodName" : "setDomainName",
 "c2jName" : "DomainName",
 "c2jShape" : "DomainName",
 "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this
object. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create
one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link
String.Builder#build()} is called immediately and its result is passed to the
{@link #domainName(String)}.
@param domainName a consumer that will call methods on String.Builder
@return Returns a reference to this
object so that method calls can be chained together.
@see #domainName(String)"
, "deprecated" : false,
 "documentation" : "",
 "endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "domainName",
 "fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
@param domainName The new value for the DomainName property for this object.
@return Returns a reference to this
object so that method calls can be chained together.","
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.\n\n@return The value of the DomainName property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the DomainName property for this object.\n\n@param \n\n@domainName The new value for the DomainName property for this object."
"setterMethodname" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
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"variableName": "domainName",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
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},
"beanStyleGetterMethodName": "getMaxResults",
"beanStyleSetterMethodName": "setMaxResults",
"c2jName": "MaxResults",
"c2jShape": "MaxResults",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the MaxResults property for this object. This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create
one manually via { @link Integer#builder()}. When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #maxResults(Integer)}. @param maxResults a consumer that will call methods on { @link Integer.Builder}@return Returns a reference to this
object so that method calls can be chained together.@see #maxResults(Integer)",
"deprecated": false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
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"fluentSetterDocumentation": "Sets the value of the MaxResults property for this object.
The new value for the MaxResults property for this object.@return Returns a reference to this object
so that method calls can be chained together.",
"fluentSetterMethodName": "maxResults",
"getterDocumentation": "Returns the value of the MaxResults property for this object.
The value of the MaxResults property for this object.",
"getterModel": {
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"documentation": null
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"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": "queryString",
"marshallLocation": "QUERY_PARAM",
"marshallLocationName": "maxResults"}
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"sensitive" : false,
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@param maxResults The new value for the MaxResults property for this object.",
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"setterModel" : {
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  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
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  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
{"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #nextToken(String)}.

@param nextToken a consumer that will call methods on {@link String.Builder} 
@returns Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)"}
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"documentation" : "",
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"fluentEnumSetterMethodName" : null,
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"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.

@param nextToken
The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "Returns the value of the NextToken property for this object.
@return The value of the NextToken property for this object."

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"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "nextToken",
"uri" : false
},
"idempotencyToken" : false,
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"jsonValue" : false,
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"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
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"sensitive" : false,
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@param nextToken
The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together."
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  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
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  "variableName": "nextToken",
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  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
}
]
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    "c2jName": "DomainName",
    "c2jShape": "DomainName",
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    "fluentEnumSetterMethodName": null,
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  "variableSetterType": "String"
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  "variableType": "String",
  "documentation": "",
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  "variableSetterType": "String"
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"xmlNameSpaceUri": null
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  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
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"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
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"setterModel" : {
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  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String"
"variableSetterType" : "String",
},
"xmlNameSpaceUri" : null
},
"MaxResults" : {
"beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults",
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the MaxResults property for this object.\nThis is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}.\nWhen the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #maxResults(Integer)}.\n@param maxResults a consumer that will call methods on {@link Integer.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #maxResults(Integer)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "Sets the value of the MaxResults property for this object.\nThe new value for the MaxResults property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "Returns the value of the MaxResults property for this object.\n@return The value of the MaxResults property for this object.",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
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"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"variableSetterType" : "String",
},
"xmlNameSpaceUri" : null
},
"MaxResults" : {
"beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults",
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the MaxResults property for this object.\nThis is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}.\nWhen the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #maxResults(Integer)}.\n@param maxResults a consumer that will call methods on {@link Integer.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #maxResults(Integer)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "Sets the value of the MaxResults property for this object.\nThe new value for the MaxResults property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "Returns the value of the MaxResults property for this object.\n@return The value of the MaxResults property for this object.",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",}
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
" sensitive" : false,
"setterDocumentation" : "Sets the value of the MaxResults property for this object.

@param maxResults The new value for the MaxResults property for this object.",
"setterMethodName" : "setMaxResults",
"setterModel" : {
"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : "",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"NextToken" : {
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object.

This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via (@link String#builder()). When the (@link Consumer) completes, (@link String.Builder#build()) is called immediately and its result is passed to (@link #nextToken(String)).

@param nextToken a consumer that will call methods on (@link String.Builder)
@return Returns a reference to this object so that method calls can be chained together.

@see #nextToken(String)",
"deprecated" : false,
"documentation" : ""
}
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.

@param
nextToken The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "Returns the value of the NextToken property for this object.

@return The value of the NextToken property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null,
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the NextToken property for this object.

@param
nextToken The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
}
"variableName" : "nextToken",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "nextToken",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
],
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object.

This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via {@link String#builder()}. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #domainName(String)].

@see #domainName(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.

The new value for the DomainName property for this object. The return value of this method is a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object."
"getterModel" : {
"returnType" : "String",
"documentation" : null
}
The new value for the DomainName property for this object.

@param domainName

@setterDocumentation

sets the value of the DomainName property for this object.

@getterDocumentation

gets the value of the DomainName property for this object.

@setterMethod

Sets the value of the DomainName property for this object.

@getterMethod

get the value of the DomainName property for this object.

@setterMethodName

"setDomainName"

@getterMethodName

"getDomainName"

@variableDeclarationType

"String"

@variableName

"domainName"

@variableType

"String"

@documentation

""
"xmlNameSpaceUri" : null,
}, {
  "beanStyleGetterMethodName" : "getMaxResults",
  "beanStyleSetterMethodName" : "setMaxResults",
  "c2jName" : "MaxResults",
  "c2jShape" : "MaxResults",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the MaxResults property for this object.\n  This is a convenience that creates an instance of the \n  @link Integer.Builder\n  avoiding the need to create one manually via \n  @link Integer.Builder#builder()\n  .\n  When the \n  @link Consumer\n  completes, \n  @link Integer.Builder#build()\n  is called immediately and its result is passed to \n  @link #maxResults(Integer)\n  .\n  @param maxResults a consumer that will call methods on \n  @link Integer.Builder\n  .\n  @return Returns a reference to this object so that method calls can be chained together.\n  @see #maxResults(Integer)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "maxResults",
  "fluentSetterDocumentation" : "Sets the value of the MaxResults property for this object.\n  \n  @param maxResults The new value for the MaxResults property for this object.\n  @return Returns a reference to this object so that method calls can be chained together.\n  ",
  "fluentSetterMethodName" : "maxResults",
  "getterDocumentation" : "Returns the value of the MaxResults property for this object.\n  ",
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "querystring",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "maxResults",
    "queryString" : true,
    "statusCode" : false,
    "unmarshallLocationName" : "maxResults",
    "uri" : false
  },
  "idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"sensitive" : false,

"setterDocumentation" : "Sets the value of the MaxResults property for this object.\n\n@param maxResults The new value for the MaxResults property for this object.\n",
"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "NextToken",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object.\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes, it is called immediately and its result is passed to {@link #nextToken(String)}.\n\n@see #nextToken(String)",
  "deprecated" : false,
  "documentation" : null,
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.
@param nextToken
The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "Returns the value of the NextToken property for this object.
@return The value of the NextToken property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the NextToken property for this object.
@param nextToken The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String"
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "GetUpgradeHistoryRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "GetUpgradeHistoryRequest",
  "variableName" : "getUpgradeHistoryRequest",
  "variableType" : "GetUpgradeHistoryRequest",
  "documentation" : null,
  "simpleType" : "GetUpgradeHistoryRequest",
  "variableSetterType" : "GetUpgradeHistoryRequest"
},
"wrapper" : false
],
"GetUpgradeHistoryResponse" : {
  "c2jName" : "GetUpgradeHistoryResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p> Container for response returned by <code> <a>GetUpgradeHistory</a> </code> operation. </p> ",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
A list of `<code>UpgradeHistory</code>` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of `<code>GetUpgradeHistoryResponse</code>` object. This is a convenience that creates an instance of the `List<UpgradeHistory>.Builder` avoiding the need to create one manually via `List<UpgradeHistory>#builder()`. When the `GetUpgradeHistoryResponse.Builder#build()` is called immediately and its result is passed to a `GetUpgradeHistoryResponse(List<UpgradeHistory>)` consumer that will call methods on `GetUpgradeHistoryResponse.Builder`. 

@link List<UpgradeHistory>.Builder#build()

@return Returns a reference to this object so that method calls can be chained together.

@see #upgradeHistories(List<UpgradeHistory>)

@deprecated

A list of `<code>UpgradeHistory</code>` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of `<code>GetUpgradeHistoryResponse</code>` object.

Attempts to modify the collection returned by this method will result in an `UnsupportedOperationException`. 

A list of `<code>UpgradeHistory</code>` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of `<code>GetUpgradeHistoryResponse</code>` object.

A list of `<code>UpgradeHistory</code>` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of `<code>GetUpgradeHistoryResponse</code>` object.
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "UpgradeHistories",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "UpgradeHistories",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2Shape": "UpgradeHistory",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object. This is a convenience that creates an instance of the {@link UpgradeHistory.Builder} avoiding the need to create one manually via {@link UpgradeHistory.Builder}. When the {@link Consumer} completes, the build() is called immediately and its result is passed to a consumer that will call methods on the UpgradeHistory.Builder.\n\n@see #member(UpgradeHistory)\n\n@deprecated"
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": "member",
  "fluentEnumSetterMethodName": "null",
  "fluentGetterMethodName": "member",
  "fluentSetterDocumentation": "Sets the value of the Member property for this object. The new value for the Member property for this object.\n\n@see #member(UpgradeHistory)\n\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName": "member",
"implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "UpgradeHistory",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object. This is a convenience that creates an instance of the {@link UpgradeHistory.Builder} avoiding the need to create one manually via {@link UpgradeHistory.Builder}. When the {@link Consumer} completes, the build() is called immediately and its result is passed to a consumer that will call methods on the UpgradeHistory.Builder.\n\n@see #member(UpgradeHistory)\n\n@deprecated"
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": "member",
  "fluentEnumSetterMethodName": "null",
  "fluentGetterMethodName": "member",
  "fluentSetterDocumentation": "Sets the value of the Member property for this object. The new value for the Member property for this object.\n\n@see #member(UpgradeHistory)\n\n@return Returns a reference to this object so that method calls can be chained together.".
  "fluentSetterMethodName": "member"}
"getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object.",
"getterModel" : {
  "returnType" : "UpgradeHistory",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "UpgradeHistory",
  "variableName" : "member",
  "variableType" : "UpgradeHistory",
  "documentation" : null,
  "simpleType" : "UpgradeHistory",
  "variableSetterType" : "UpgradeHistory"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "UpgradeHistory",
  "variableName" : "member"}
"variableType" : "UpgradeHistory",
"documentation" : "",
"simpleType" : "UpgradeHistory",
"variableSetterType" : "UpgradeHistory"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "UpgradeHistory",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "UpgradeHistory",
"templateImplType" : "java.util.ArrayList<UpgradeHistory>",
"templateType" : "java.util.List<UpgradeHistory>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "UpgradeHistories",
" sensitive" : false,
"setterDocumentation" : "<p> A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object. </p>
@param upgradeHistories A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object.",
"setterMethodName" : "setUpgradeHistories",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<UpgradeHistory>",
  "variableName" : "upgradeHistories",
  "variableType" : "java.util.List<UpgradeHistory>",
  "documentation" : null,
  "simpleType" : "List<UpgradeHistory>",
  "variableSetterType" : "java.util.Collection<UpgradeHistory>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<UpgradeHistory>",
  "variableName" : "upgradeHistories",
  "variableType" : "java.util.List<UpgradeHistory>",
  "documentation" : "<p> A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object. </p>
@param upgradeHistories A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object.",
"simpleType" : "List<UpgradeHistory>",
"variableSetterType" : "java.util.Collection<UpgradeHistory>",
}"
<p>Pagination token that needs to be supplied to the next call to get the next page of results.</p>

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.builder()`. When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to a consumer that will call methods on `String.Builder`.

```java
@link @see #nextToken(String)
```

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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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@link @see #nextToken(String)
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
@param nextToken Pagination token that needs to be supplied to the next call to get the next page of results",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
  "NextToken" : {
    "beanStyleGetterMethodName" : "getNextToken",
    "beanStyleSetterMethodName" : "setNextToken",
    "c2jName" : "NextToken",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>"
  }
},
"deprecated" : false,
"documentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
@param nextToken Pagination token that needs to be supplied to the next call to get the next page of results
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
@return Pagination token that needs to be supplied to the next call to get the next page of results",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
@param nextToken Pagination token that needs to be supplied to the next call to get the next page of results
@return Returns a reference to this object so that method calls can be chained together.";}
"setterMethodName" : "setNextToken",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "nextToken",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "nextToken",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"UpgradeHistories" : {
   "beanStyleGetterMethodName" : "getUpgradeHistories",
   "beanStyleSetterMethodName" : "setUpgradeHistories",
   "c2jName" : "UpgradeHistories",
   "c2jShape" : "UpgradeHistoryList",
   "defaultConsumerFluentSetterDocumentation" : "<p>A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object.</p>
   This is a convenience that creates an instance of the {@link List<UpgradeHistory>.Builder} avoiding the need to create one manually via {@link List<UpgradeHistory>#builder()}. When the {@link Consumer} completes, {@link List<UpgradeHistory>.Builder#build()} is called immediately and its result is passed to {@link #upgradeHistories(List<UpgradeHistory>)}. When the {@link List<UpgradeHistory>.Builder#build()} is called immediately and its result is passed to {@link #upgradeHistories(List<UpgradeHistory>)},
   "deprecated" : false,
   "documentation" : "A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object."},
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluentSetterDocumentation" : "A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object."
to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code>
GetUpgradeHistoryResponse</code> object. 

@param upgradeHistories A list of <code>
UpgradeHistory</code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code>
GetUpgradeHistoryResponse</code> object. 

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "upgradeHistories",

"getterDocumentation" : "A list of <code>
UpgradeHistory</code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code>
GetUpgradeHistoryResponse</code> object. 

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return A list of <code>
UpgradeHistory</code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code>
GetUpgradeHistoryResponse</code> object.

"getterModel" : {
 "returnType" : "java.util.List<UpgradeHistory>",
 "documentation" : null
},

"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "UpgradeHistories",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "UpgradeHistories",
 "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : true,

"listModel" : {
 "implType" : "java.util.ArrayList",
 "interfaceType" : "java.util.List",
 "listMemberModel" : {
 "beanStyleGetterMethodName" : "getMember",
 "beanStyleSetterMethodName" : "setMember",
 "c2jName" : "member",
 "c2jShape" : "UpgradeHistory",
 "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object."
 },
 "defaultProducerFluentSetterDocumentation" : "Sets the
 value of the Member property for this object.

This is a convenience that creates an instance of the <code>
UpgradeHistory.Builder</code> avoiding the need to create it manually via <code>
UpgradeHistory.Builder#builder()</code>. When the <code>
Consumer</code> completes, <code>
UpgradeHistory.Builder#build()</code> is called immediately and its result is passed to <code>

@param member a consumer that will call methods on the UpgradeHistory.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #member(UpgradeHistory)

Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterDocumentation": "Sets the value of the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"getterModel": {
"returnType": "UpgradeHistory",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"sensitive": false,
"setterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object."

setterMethodName" : "setMember",
setterModel" : {
  "variableDeclarationType" : "UpgradeHistory",
  "variableName" : "member",
  "variableType" : "UpgradeHistory",
  "documentation" : null,
  "simpleType" : "UpgradeHistory",
  "variableSetterType" : "UpgradeHistory"
},
simple" : false,
timestampFormat" : null,
variable" : {
  "variableDeclarationType" : "UpgradeHistory",
  "variableName" : "member",
  "variableType" : "UpgradeHistory",
  "documentation" : null,
  "simpleType" : "UpgradeHistory",
  "variableSetterType" : "UpgradeHistory"
},

xmlNameSpaceUri" : null,
memberLocationName" : null,
memberType" : "UpgradeHistory",
map" : false,
memberAdditionalMarshallingPath" : null,
memberAdditionalUnmarshallingPath" : null,
simple" : false,
simpleType" : "UpgradeHistory",
templateImplType" : "java.util.ArrayList<UpgradeHistory>",
templateType" : "java.util.List<UpgradeHistory>"
},
map" : false,
mapModel" : null,
marshallingType" : "LIST",
name" : "UpgradeHistories",
sensitive" : false,
setterDocumentation" : "A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object."

setterMethodName" : "setUpgradeHistories",
setterModel" : {
  "variableDeclarationType" : "java.util.List<UpgradeHistory>",
  "variableName" : "upgradeHistories",
  "variableType" : "java.util.List<UpgradeHistory>",
  "documentation" : null,
  "simple" : false,
  "simpleType" : "UpgradeHistory",
  "variableSetterType" : "java.util.List<UpgradeHistory>"
},
simple" : false,
timestampFormat" : null,
variable" : {
  "variableDeclarationType" : "java.util.List<UpgradeHistory>",
  "variableName" : "upgradeHistories",
  "variableType" : "java.util.List<UpgradeHistory>",
  "documentation" : null,
  "simple" : false,
  "simpleType" : "UpgradeHistory",
  "variableSetterType" : "java.util.List<UpgradeHistory>"
},
map" : false,
mapModel" : null,
marshallingType" : "LIST",
name" : "UpgradeHistories",
sensitive" : false,
A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object. This is a convenience that creates an instance of the <code>List<UpgradeHistory>.Builder</code> avoiding the need to create one manually via <code>List<UpgradeHistory>#builder()</code>. When the <code>Consumer</code> completes, <code>List<UpgradeHistory>.Builder#build()</code> is called immediately and its result is passed to <code>#upgradeHistories(List<UpgradeHistory>)</code>. Returns a reference to this object so that method calls can be chained together.

In a GetUpgradeHistoryResponse object. A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code>GetUpgradeHistoryResponse</code> object. When the <code>Consumer</code> completes, <code>List<UpgradeHistory>.Builder#build()</code> is called immediately and its result is passed to <code>#upgradeHistories(List<UpgradeHistory>)</code>. Returns a reference to this object so that method calls can be chained together.

Objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code>GetUpgradeHistoryResponse</code> object.

Objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code>GetUpgradeHistoryResponse</code> object.

Objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code>GetUpgradeHistoryResponse</code> object.
on a domain returned as part of `<code>`<a>GetUpgradeHistoryResponse</a>`<code>` object.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "upgradeHistories",
"getterDocumentation" : "A list of `<code>`<a>UpgradeHistory</a>`<code>` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of `<code>`<a>GetUpgradeHistoryResponse</a>`<code>` object. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return A list of `<code>`<a>UpgradeHistory</a>`<code>` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of `<code>`<a>GetUpgradeHistoryResponse</a>`<code>` object.

"getterModel" :{
"returnType" : "java.util.List<UpgradeHistory>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeHistories",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeHistories",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "UpgradeHistory",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the {[@link UpgradeHistory.Builder]} avoiding the need to create one manually via {[@link UpgradeHistory#builder()]}\n\nWhen the {[@link Consumer]} completes, {[@link UpgradeHistory.Builder#build()]} is called immediately and its result is passed to {[@link #member(UpgradeHistory)]}\n\n@see #member(UpgradeHistory)"
}
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@returns {UpgradeHistory} The new value for the Member property for this object.",
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@returns {UpgradeHistory} The value of the Member property for this object."

"getterModel" : {

"returnType" : "UpgradeHistory",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@returns {UpgradeHistory} The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterSetterMethodName" : "member",
A list of `UpgradeHistory` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of `GetUpgradeHistoryResponse` object.
A list of <code>&lt;a&gt;UpgradeHistory&lt;/a&gt;</code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code>&lt;a&gt;GetUpgradeHistoryResponse&lt;/a&gt;</code> object.
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
@param nextToken Pagination token that needs to be supplied to the next call to get the next page of results",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null}
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "GetUpgradeHistoryResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "GetUpgradeHistoryResponse",
  "variableName" : "getUpgradeHistoryResponse",
  "variableType" : "GetUpgradeHistoryResponse",
  "documentation" : null,
  "simpleType" : "GetUpgradeHistoryResponse",
  "variableSetterType" : "GetUpgradeHistoryResponse"
},
"wrapper" : false
},
"GetUpgradeStatusRequest" : {
  "c2jName" : "GetUpgradeStatusRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p> Container for request parameters to <code> <a>GetUpgradeStatus</a> </code> operation. </p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : {
    "action" : "GetUpgradeStatus",
    "locationName" : null,
    "requestUri" : "/2015-01-01/es/upgradeDomain/{DomainName}/status",
    "target" : null,
    "verb" : "GET",
    "documentation" : "<p> Container for request parameters to <code> <a>GetUpgradeStatus</a> </code> operation. </p>"}
"xmlnsNameSpaceUri" : null,
],
"members" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object. This is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link String.Builder#builder()]. When the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link String#builder()]. @param domainName a consumer that will call methods on [ @link String.Builder] @return Returns a reference to this object so that method calls can be chained together. @see #domainName(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : false,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object. @param domainName The new value for the DomainName property for this object. @return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object. @return The value of the DomainName property for this object."
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the DomainName property for this object.

The new value for the DomainName property for this object.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : 
  "=",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
"DomainName" : {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this
object.
This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create
one manually via \{@link String#builder()\}.When the \{@link Consumer\} completes, \{@link
String.Builder#build()\} is called immediately and its result is passed to \{@link
#domainName(String)\}.\n@param domainName a consumer that will call methods on \{@link String.Builder\}\n@return Returns a reference to this
object so that method calls can be chained together.\n@see #domainName(String)",
  "deprecated" : false,
  "documentation" : 
  "=",
  "endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.

@\param domainName The new value for the DomainName property for this object.
\n@return Returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.
\n@return The value of the DomainName property for this object."

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,

"setterDocumentation" : "Sets the value of the DomainName property for this object.
\n@\param domainName The new value for the DomainName property for this object."

"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "DomainName"}
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "domainName",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
}
]
",
"nonStreamingMembers": [ {
"beanStyleGetterMethodName": "getDomainName",
"beanStyleSetterMethodName": "setDomainName",
"c2jName": "DomainName",
"c2jShape": "DomainName",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the DomainName property for this object. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}. @param domainName a consumer that will call methods on {@link String.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #domainName(String)",
"deprecated": false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "domainName",
"fluentSetterDocumentation": "Sets the value of the DomainName property for this object. The new value for the DomainName property for this object so that method calls can be chained together."
"fluentSetterMethodName": "domainName",
"getterDocumentation": "Returns the value of the DomainName property for this object. The value of the DomainName property for this object."
"getterModel": {
"returnType": "String",
"documentation": null
}
}.
"http": {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the DomainName property for this object.

@param domainName
The new value for the DomainName property for this object.",
"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "GetUpgradeStatusRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "GetUpgradeStatusRequest",
  "variableName" : "getUpgradeStatusRequest",
  "variableType" : "GetUpgradeStatusRequest",
  "documentation" : null,
  "simpleType" : "GetUpgradeStatusRequest",
  "variableSetterType" : "GetUpgradeStatusRequest"
},
"wrapper" : false
},
"GetUpgradeStatusResponse" : {
  "c2jName" : "GetUpgradeStatusResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Container for response returned by <code> <a>GetUpgradeStatus</a> </code> operation. <p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>"
This is a convenience that creates an instance of the `{@link String.Builder}` avoiding the need to create one manually via `{@link String#builder()}`. When the `{@link Consumer}` completes, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #upgradeStepAs(String)}`. 

When the `{@link Consumer}` completes, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #upgradeStepAs(String)}`.

@see #upgradeStep(String)
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "UpgradeStep",
"sensitive": false,
"setterDocumentation": "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
@param upgradeStep Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
@see UpgradeStep",
"setterMethodName": "setUpgradeStep",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "upgradeStep",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "upgradeStep",
  "variableType": "String",
  "documentation": "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getStepStatusAsString",
"beanStyleSetterMethodName": "setStepStatus",
"c2jName": "StepStatus",
"c2jShape": "UpgradeStatus",
"defaultConsumerFluentSetterDocumentation": "<p> One of 4 statuses that a step can go through returned as part of the <code>&lt;a&gt;GetUpgradeStatusResponse&lt;/a&gt;</code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> This is a convenience that creates an instance of the <code>@link String.Builder</code> avoiding the need to create one manually via <code>@link String.Builder#builder()</code>. When the <code>@link Consumer</code> completes, <code>@link String.Builder#build()</code> is called immediately and its result is passed to <code>@link #stepStatusAsString(String)</code>. <nn>on@return Returns a reference to this object so that method calls can be chained together.</n@see #stepStatus(String)",
"deprecated": false,
"documentation" : "One of 4 statuses that a step can go through returned as part of the \code{GetUpgradeStatusResponse} object. The status can take one of the following values: \li In Progress\li Succeeded\li Succeeded with Issues\li Failed\n\n@see UpgradeStatus
@returns Returns a reference to this object so that method calls can be chained together.
@see UpgradeStatus",
"fluentGetterMethodName" : "stepStatus",
"fluentSetterMethodName" : "stepStatus",
"fluentEnumGetterMethodName" : "stepStatus",
"fluentEnumSetterMethodName" : "stepStatus",
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "StepStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StepStatus",
"uri" : false,
"idempotencyToken" : false,
One of 4 statuses that a step can go through returned as part of the `<code>`<a>GetUpgradeStatusResponse</a>`<code>` object. The status can take one of the following values: `<ul>`<li> In Progress</li>`<li>Succeeded</li>`<li>Succeeded with Issues</li>`<li>Failed</li>`</ul>`

@see UpgradeStatus

`setterDocumentation` : "<p> One of 4 statuses that a step can go through returned as part of the `<code>`<a>GetUpgradeStatusResponse</a>`<code>` object. The status can take one of the following values: `<ul>`<li> In Progress</li>`<li>Succeeded</li>`<li>Succeeded with Issues</li>`<li>Failed</li>`</ul>`

One of 4 statuses that a step can go through returned as part of the `<code>`<a>GetUpgradeStatusResponse</a>`<code>` object. The status can take one of the following values: `<ul>`<li> In Progress</li>`<li>Succeeded</li>`<li>Succeeded with Issues</li>`<li>Failed</li>`</ul>`

@see UpgradeStatus


"variableDeclarationType" : "String","variableName" : "stepStatus","variableType" : "String","documentation" : null,"simpleType" : "String","variableSetterType" : "String"},"xmlNameSpaceUri" : null},
{
"beanStyleGetterMethodName" : "getUpgradeName","beanStyleSetterMethodName" : "setUpgradeName","c2jName" : "UpgradeName","c2jShape" : "UpgradeName","defaultConsumerFluentSetterDocumentation" : "A string that describes the update briefly"\n
This is a convenience that creates an instance of the `{ @link String.Builder } avoiding the need to create one manually via `{ @link String#builder() }`\n
When the `{ @link Consumer } completes, `{ @link String.Builder#build() }` is called immediately and its result is passed to `{ @link #upgradeName(String) }`\n
@see upgradeName(String)"
"deprecated" : false,
"documentation" : "A string that describes the update briefly",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeName",
"fluentSetterDocumentation" : "A string that describes the update briefly
@param upgradeName A string that describes the update briefly
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "upgradeName",
"getterDocumentation" : "A string that describes the update briefly
@return A string that describes the update briefly",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpgradeName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeName",
"sensitive" : false,
"setterDocumentation" : "A string that describes the update briefly
@param upgradeName A string that describes the update briefly
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setUpgradeName"
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "upgradeName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "upgradeName",
  "variableType": "String",
  "documentation": <p>A string that describes the update briefly</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
}
,"membersAsMap": {
  "StepStatus": {
    "beanStyleGetterMethodName": "getStepStatusAsString",
    "beanStyleSetterMethodName": "setStepStatus",
    "c2jName": "StepStatus",
    "c2jShape": "UpgradeStatus",
    "defaultConsumerFluentSetterDocumentation": "<p>One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul></p>
This is a convenience that creates an instance of the {<a>GetUpgradeStatusResponse</a>} object. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>
When the {<a>GetUpgradeStatusResponse</a>} completes, {<a>GetUpgradeStatusResponse#build()</a>} is called immediately and its result is passed to {<a>GetUpgradeStatusAsStringBuilder(String)</a>}. In the returns a reference to this object so that method calls can be chained together.

"deprecated": false,
"documentation": "<p>One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul></p>
"endpointDiscoveryId": false,
"enumType": "UpgradeStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "stepStatus",
"fluentEnumSetterMethodName": "stepStatus",
"fluentGetterMethodName": "stepStatusAsString",
"fluentSetterDocumentation": "<p>One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul></p>"}
One of 4 statuses that a step can go through returned as part of the `<code> <a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: `<ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>`

@see UpgradeStatus

@return Returns a reference to this object so that method calls can be chained together.

@see UpgradeStatus

"getterDocumentation" : "One of 4 statuses that a step can go through returned as part of the `<code> <a>GetUpgradeStatusResponse</a> </code> object. The status can take one of the following values: `<ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>`

If the service returns an enum value that is not available in the current SDK version, {@link #stepStatus} will return {@link UpgradeStatus#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #stepStatusAsString}.

@return One of 4 statuses that a step can go through returned as part of the `<code> <a>GetUpgradeStatusResponse</a> </code> object. The status can take one of the following values: `<ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>`

@see UpgradeStatus

"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "StepStatus",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "StepStatus",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "StepStatus",
"sensitive" : false,
"setterDocumentation" : "One of 4 statuses that a step can go through returned as part of the `<code> <a>GetUpgradeStatusResponse</a> </code> object. The status can take one of the following values: `<ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>`

One of 4 statuses that a step can go through returned as part of the `<code> <a>GetUpgradeStatusResponse</a> </code> object. The status can take one of the following values: `<ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>`

@see UpgradeStatus

"setterDocumentation" : "One of 4 statuses that a step can go through returned as part of the `<code> <a>GetUpgradeStatusResponse</a> </code> object. The status can take one of the following values: `<ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>`
object. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>

@see UpgradeStatus",

```
/setterMethodName": "setStepStatus",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "stepStatus",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "stepStatus",
  "variableType": "String",
  "documentation": "One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>"
},
"xmlNameSpaceUri": null
},
"UpgradeName": {
  "beanStyleGetterMethodName": "getUpgradeName",
  "beanStyleSetterMethodName": "setUpgradeName",
  "c2jName": "UpgradeName",
  "c2jShape": "UpgradeName",
  "defaultConsumerFluentSetterDocumentation": "A string that describes the update briefly
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to
{@link #upgradeName(String)}.
@param upgradeName a consumer that will call methods on
@return Returns a reference to this object so that method calls can be chained together.
@see #upgradeName(String)",
  "deprecated": false,
  "documentation": "A string that describes the update briefly",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "upgradeName",
  "fluentSetterDocumentation": "A string that describes the update briefly
@return Returns a reference to this object so that method calls can be chained together.",
```
"fluentSetterMethodName": "upgradeName",
"getterDocumentation": "<p>A string that describes the update briefly</p>
@return A string that describes the update briefly",
"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "UpgradeName",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "UpgradeName",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "UpgradeName",
"sensitive": false,
"setterDocumentation": "<p>A string that describes the update briefly</p>
@param upgradeName A string that describes the update briefly",
"setterMethodName": "setUpgradeName",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "upgradeName",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "UpgradeName",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
}
"variableName" : "upgradeName",
"variableType" : "String",
"documentation" : "<p>A string that describes the update briefly</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpgradeStep" : {
"beanStyleGetterMethodName" : "getUpgradeStepAsString",
"beanStyleSetterMethodName" : "setUpgradeStep",
"c2jName" : "UpgradeStep",
"c2jShape" : "UpgradeStep",
"defaultConsumerFluentSetterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
<ul> 
<li>PreUpgradeCheck</li> 
<li>Snapshot</li> 
<li>Upgrade</li> 
</ul> 
This is a convenience that creates an instance of the @link String.Builder avoiding the need to create one manually via @link String.Builder(). 
When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #upgradeStepAsString(String). 
@param upgradeStep a consumer that will call methods on @link String.Builder
@returns Returns a reference to this object so that method calls can be chained together.
@see #upgradeStepAsString(String)
"his deprecated" : false,
"documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
<ul> 
<li>PreUpgradeCheck</li> 
<li>Snapshot</li> 
<li>Upgrade</li> 
</ul> 
@endpointDiscoveryId" : false,
"enumType" : "UpgradeStep",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
<ul> 
<li>PreUpgradeCheck</li> 
<li>Snapshot</li> 
<li>Upgrade</li> 
</ul> 
@returns Returns a reference to this object so that method calls can be chained together.
@see UpgradeStep
" inflammable": false,
"getterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
<ul> 
<li>PreUpgradeCheck</li> 
<li>Snapshot</li> 
<li>Upgrade</li> 
</ul> 
If the service returns an enum value that is not available in the current SDK version, @link UpgradeStep#UNKNOWN_TO_SDK_VERSION will return @link UpgradeStep#UNKNOWN_TO_SDK_VERSION. 
The raw value returned by the service is available from @link UpgradeStepAsString(). 
@returns Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
<ul> 
<li>PreUpgradeCheck</li> 
<li>Snapshot</li> 
<li>Upgrade</li> 
</ul> 
@see UpgradeStep
"returnModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStep",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeStep",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStep",
"sensitive" : false,
"setterDocumentation" : "Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
@see UpgradeStep",
"setterMethodName" : "setUpgradeStep",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : " Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
@see UpgradeStep",
  "simpleType" : "String",
  "variableSetterType" : "String"
}
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getUpgradeStepAsString",
  "beanStyleSetterMethodName" : "setUpgradeStep",
  "c2jName" : "UpgradeStep",
  "c2jShape" : "UpgradeStep",
  "defaultConsumerFluentSetterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()]
When the [@link String.Builder#build()] is called immediately and its result is passed to [@link UpgradeStepAsString(String)].
@param upgradeStep a consumer that will call methods on [@link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.<@see #upgradeStepAsString(String)>
  "deprecated" : false,
  "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
"endpointDiscoveryId" : false,
"enumType" : "UpgradeStep",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
@param upgradeStep Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
  <li>PreUpgradeCheck</li>
  <li>Snapshot</li>
  <li>Upgrade</li>
</ul>
@see UpgradeStep
@return Returns a reference to this object so that method calls can be chained together.<@see UpgradeStep>
"fluentSetterMethodName" : "upgradeStep",
"getterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
If the service returns an enum value that is not available in the current SDK version, [@link #upgradeStep] will return [@link UpgradeStep#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link UpgradeStepAsString].
@returns Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li>
  <li>Snapshot</li>
  <li>Upgrade</li>
</ul>
@see UpgradeStep",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStep",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeStep",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStep",
"setterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
@param upgradeStep
Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li>
</ul>
@see UpgradeStep",
"setterMethodName" : "setUpgradeStep",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "upgradeStep",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
}
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "upgradeStep",
"variableType" : "String",
"documentation" : <p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li>
</ul> </p>
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getStepStatusAsString",
"beanStyleSetterMethodName" : "setStepStatus",
"c2jName" : "StepStatus",
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStep",
"queryString" : false,
"statusName" : false,
"unmarshallLocationName" : "UpgradeStep",
"uri" : false
}
One of 4 statuses that a step can go through returned as part of the `<code>` response object. The status can take one of the following values: `<ul>
  <li>In Progress</li>
  <li>Succeeded</li>
  <li>Succeeded with Issues</li>
  <li>Failed</li>
</ul>`

This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via `{@link String#builder()}`. When the [@link Consumer] completes, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #stepStatusAsString(String)}`.

When the [@link Consumer] completes, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #stepStatusAsString(String)}`.

```
@see #stepStatus(String)
```

```
@param stepStatus a consumer that will call methods on `{@link String.Builder}\n\n@see #stepStatus(String)`

```
@see UpgradeStatus
```

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@see UpgradeStatus
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@see UpgradeStatus
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@see UpgradeStatus
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@see UpgradeStatus
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@see UpgradeStatus
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@see UpgradeStatus
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@see UpgradeStatus
```

```
```
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "StepStatus",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "StepStatus",
"uri": false,
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "StepStatus",
"setterDocumentation": 
"<p> One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
@see UpgradeStatus",
"setterMethodName": "setStepStatus",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "stepStatus",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "stepStatus",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null}
"beanStyleGetterMethodName" : "getUpgradeName",
"beanStyleSetterMethodName" : "setUpgradeName",
"c2jName" : "UpgradeName",
"c2jShape" : "UpgradeName",
"defaultConsumerFluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #upgradeName(String)\}.\n
@see \#upgradeName(String)\n\n@return Returns a reference to this object so that method calls can be chained together.\n
@see \#upgradeName(String)"
"deprecated" : false,
"documentation" : "<p>A string that describes the update briefly</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventId" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentMethodName" : "upgradeName",
"fluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
\n@param upgradeName A string that describes the update briefly\n\n@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "upgradeName",
"getterDocumentation" : "<p>A string that describes the update briefly</p>\n\n@return A string that describes the update briefly",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpgradeName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeName",
"sensitive" : false,
"setterDocumentation" : "A string that describes the update briefly\n@param upgradeName A string that describes the update briefly",
"setterMethodName" : "setUpgradeName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : "A string that describes the update briefly",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "GetUpgradeStatusResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "GetUpgradeStatusResponse",
  "variableName" : "getUpgradeStatusResponse",
  "variableType" : "GetUpgradeStatusResponse",
  "documentation" : null,
  "simpleType" : "GetUpgradeStatusResponse",
  "variableSetterType" : "GetUpgradeStatusResponse"
},
"wrapper" : false
InstanceCountLimits represents the limits on number of instances that be created in Amazon Elasticsearch for given InstanceType.

```
"InstanceCountLimits" : {
"c2jName" : "InstanceCountLimits",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "InstanceCountLimits represents the limits on number of instances that be created in Amazon Elasticsearch for given InstanceType."
},
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [
"beanStyleGetterMethodName" : "getMinimumInstanceCount",
"beanStyleSetterMethodName" : "setMinimumInstanceCount",
"c2jName" : "MinimumInstanceCount",
"c2jShape" : "MinimumInstanceCount",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object. This is a convenience that creates an instance of the `Integer.Builder` avoiding the need to create one manually via `Integer.builder()`. When the `Consumer` completes, a reference to this object so that method calls can be chained together.

@see #minimumInstanceCount(Integer)"
},
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "minimumInstanceCount",
"fluentSetterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

@see #minimumInstanceCount(Integer)"
},
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
The value of the MinimumInstanceCount property for this object.
@return Returns the value of the MinimumInstanceCount property for this object.

@method setMinimumInstanceCount

@returns Returns a reference to this object so that method calls can be chained together.


"variableDeclarationType" : "Integer",
"variableName" : "minimumInstanceCount",
"variableType" : "Integer",
"documentation" : "",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
}
,"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getMaximumInstanceCount",
"beanStyleSetterMethodName" : "setMaximumInstanceCount",
"c2jName" : "MaximumInstanceCount",
"c2jShape" : "MaximumInstanceCount",
"defaultValueFluentSetterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.

This is a convenience that creates an instance of the [Integer.Builder] avoiding the need to create one manually via [Integer.Builder].

When the [Consumer] completes, [Integer.Builder#build()] is called immediately and its result is passed to [maximumInstanceCount(Integer)].

@link Integer.Builder\n@returns Returns a reference to this object so that method calls can be chained together.
@see #maximumInstanceCount(Integer),

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maximumInstanceCount",
"fluentSetterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.

@link param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.
@returns Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "maximumInstanceCount",
"getterDocumentation" : "Returns the value of the MaximumInstanceCount property for this object.
",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "MaximumInstanceCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "MaximumInstanceCount",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaximumInstanceCount",
"setterMethodName" : "setMaximumInstanceCount",
"setterMethodName" : "setMaximumInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maximumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maximumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "MaximumInstanceCount" : {
    "beanStyleGetterMethodName" : "getMaximumInstanceCount",
    "beanStyleSetterMethodName" : "setMaximumInstanceCount",
    "c2jName" : "MaximumInstanceCount",
    "c2jShape" : "MaximumInstanceCount",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.\n\n@\nmaximumInstanceCount The new value for the MaximumInstanceCount property for this object.\n\n@param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.",
    "setterMethodName" : "setMaximumInstanceCount",
    "setterMethodName" : "setMaximumInstanceCount",
    "setterModel" : {
      "variableDeclarationType" : "Integer",
      "variableName" : "maximumInstanceCount",
      "variableType" : "Integer",
      "documentation" : null,
      "simpleType" : "Integer",
      "variableSetterType" : "Integer"
    },
    "simple" : true,
    "timestampFormat" : null,
    "variable" : {
      "variableDeclarationType" : "Integer",
      "variableName" : "maximumInstanceCount",
      "variableType" : "Integer",
      "documentation" : null,
      "simpleType" : "Integer",
      "variableSetterType" : "Integer"
    },
    "xmlNameSpaceUri" : null
  }
}.
"membersAsMap" : {
  "MaximumInstanceCount" : {
    "beanStyleGetterMethodName" : "getMaximumInstanceCount",
    "beanStyleSetterMethodName" : "setMaximumInstanceCount",
    "c2jName" : "MaximumInstanceCount",
    "c2jShape" : "MaximumInstanceCount",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.\n\nThis is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to
create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #maximumInstanceCount(Integer)}. Returns a consumer that will call methods on {@link Integer.Builder}. Returns a reference to this object so that method calls can be chained together.

@see #maximumInstanceCount(Integer)

@deprecated
@link Integer#builder()

When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #maximumInstanceCount(Integer)}. The new value for the MaximumInstanceCount property for this object.

@see #maximumInstanceCount

Returns a reference to this object so that method calls can be chained together."

getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
}

http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "MaximumInstanceCount",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "MaximumInstanceCount",
    "uri" : false
}

"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
The value of the MinimumInstanceCount property for this object.

@return Returns the value of the MinimumInstanceCount property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "MinimumInstanceCount",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "MinimumInstanceCount",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MinimumInstanceCount",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object.

@param minimumInstanceCount The new value for the MinimumInstanceCount property for this object.

@return Returns a reference to this object so that method calls can be chained together.

"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "minimumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
}
"variableDeclarationType" : "Integer",
"variableName" : "minimumInstanceCount",
"variableType" : "Integer",
"documentation" : "",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
],
"xmlnsNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getMinimumInstanceCount",
"beanStyleSetterMethodName" : "setMinimumInstanceCount",
"c2jName" : "MinimumInstanceCount",
"c2jShape" : "MinimumInstanceCount",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object.\n\nThis is a convenience that creates an instance of the \[@link Integer.Builder\] avoiding the need to create one manually via \{@link Integer#builder()\}.\n\nWhen the \[@link Consumer\] completes, \{@link Integer.Builder#build()\} is called immediately and its result is passed to \[@link #minimumInstanceCount(Integer)\] a consumer that will call methods on \[@link Integer.Builder\] and return a reference to this object so that method calls can be chained together.\n\n@see #minimumInstanceCount(Integer)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "minimumInstanceCount",
"fluentSetterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object.\n\n@param minimumInstanceCount The new value for the MinimumInstanceCount property for this object.\n@return Returns a reference to this object so that method calls can be chained together.\n\nThe value of the MinimumInstanceCount property for this object.\n",
"getterDocumentation" : "Returns the value of the MinimumInstanceCount property for this object.\n",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "MinimumInstanceCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "MinimumInstanceCount",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MinimumInstanceCount",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object.\n\n@\n\nminimumInstanceCount The new value for the MinimumInstanceCount property for this object."
,
"setterMethodName" : "setMinimumInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "minimumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "minimumInstanceCount",
  "variableType" : "Integer",
  "documentation" : "",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getMaximumInstanceCount",
"beanStyleSetterMethodName" : "setMaximumInstanceCount",
"c2jName" : "MaximumInstanceCount",
"c2jShape" : "MaximumInstanceCount",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.\n\nThis is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create
When the `@link Consumer` completes, `{@link Integer.Builder#build()}` is called immediately and its result is passed to `{@link #maximumInstanceCount(Integer)}`.

```
@throws RuntimeException if the maximum instance count is not a positive number.
```

### Example

```java
consumer.accept(new Integer.Builder() {
  .maximumInstanceCount(5)
  .build()
}).
```

### Notes

The `maximumInstanceCount` method can be chained together.

```java
consumer.accept(new Integer.Builder()
  .maximumInstanceCount(5)
  .build()
).
```

### See Also

- `#maximumInstanceCount(Integer)`

### Documentation

Sets the value of the MaximumInstanceCount property for this object.

```java
maximumInstanceCount(Integer maximumInstanceCount)
```

* @param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.
* @return Returns a reference to this object so that method calls can be chained together.

```java
public MaximumInstanceCount withMaximumInstanceCount(Integer maximumInstanceCount)
```

* @param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.
* @return Returns a reference to this object so that method calls can be chained together.

```java
public MaximumInstanceCount withMaximumInstanceCount(java.util.List<Integer> maximumInstanceCount)
```

* @param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.
* @return Returns a reference to this object so that method calls can be chained together.

```java
public MaximumInstanceCount withMaximumInstanceCount(java.util.Map<Integer, Integer> maximumInstanceCount)
```

* @param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.
* @return Returns a reference to this object so that method calls can be chained together.

```java
public MaximumInstanceCount withMaximumInstanceCount(java.util.Set<Integer> maximumInstanceCount)
```

* @param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.
* @return Returns a reference to this object so that method calls can be chained together.

```
```
InstanceLimits represents the list of instance related attributes that are available for given InstanceType. 

Sets the value of the InstanceCountLimits property for this object. This is a convenience that creates an instance of the [InstanceCountLimits.Builder] avoiding the need to create one manually via [InstanceCountLimits#builder()]. When the [Consumer] completes, [InstanceCountLimits.Builder#build()] is called immediately and its result is passed to [InstanceCountLimits(InstanceCountLimits)].

Sets the value of the InstanceCountLimits property for this object. The new value for the InstanceCountLimits property for this object.

Returns a reference to this object so that method calls can be chained together.

Sets the value of the InstanceCountLimits property for this object.

@see #instanceCountLimits(InstanceCountLimits)
"returnType" : "InstanceCountLimits",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "InstanceCountLimits",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "InstanceCountLimits",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "InstanceCountLimits",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.\n\n@param instanceCountLimits The new value for the InstanceCountLimits property for this object.\n\n@returns\n",
"setterMethodName" : "setInstanceCountLimits",
"setterModel" : {
  "variableDeclarationType" : "InstanceCountLimits",
  "variableName" : "instanceCountLimits",
  "variableType" : "InstanceCountLimits",
  "documentation" : null,
  "simpleType" : "InstanceCountLimits",
  "variableSetterType" : "InstanceCountLimits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "InstanceCountLimits",
  "variableName" : "instanceCountLimits",
  "variableType" : "InstanceCountLimits",
  "documentation" : "",
  "simpleType" : "InstanceCountLimits",
  "variableSetterType" : "InstanceCountLimits"}
"variableSetterType" : "InstanceCountLimits",
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
"InstanceCountLimits" : {
"beanStyleGetterMethodName" : "getInstanceCountLimits",
"beanStyleSetterMethodName" : "setInstanceCountLimits",
"c2jName" : "InstanceCountLimits",
"c2jShape" : "InstanceCountLimits",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.
This is a convenience that creates an instance of the [InstanceCountLimits.Builder] avoiding the need to create one manually via [InstanceCountLimits.Builder].
When the [Consumer] completes, [InstanceCountLimits.Builder.Builder] is called immediately and its result is passed to [InstanceCountLimits](InstanceCountLimits).
@param instanceCountLimits a consumer that will call methods on [InstanceCountLimits.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see InstanceCountLimits(InstanceCountLimits),
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceCountLimits",
"fluentSetterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.
@param instanceCountLimits The new value for the InstanceCountLimits property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "instanceCountLimits",
"getterDocumentation" : "Returns the value of the InstanceCountLimits property for this object.
@see InstanceCountLimits(InstanceCountLimits),
"getterModel" : {
"returnType" : "InstanceCountLimits",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceCountLimits",
"queryString" : false,
"statusCode": false,
"unmarshallLocationName": "InstanceCountLimits",
"uri": false
],
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"names": "InstanceCountLimits",
"sensitive": false,
"setterDocumentation": "Sets the value of the InstanceCountLimits property for this object.\n\n@param instanceCountLimits The new value for the InstanceCountLimits property for this object.\n
setterMethodName": "setInstanceCountLimits",
"setterModel": {,
"variableDeclarationType": "InstanceCountLimits",
"variableName": "instanceCountLimits",
"variableType": "InstanceCountLimits",
"documentation": null,
"simpleType": "InstanceCountLimits",
"variableSetterType": "InstanceCountLimits"
},
"simple": false,
"timestampFormat": null,
"variable": {,
"variableDeclarationType": "InstanceCountLimits",
"variableName": "instanceCountLimits",
"variableType": "InstanceCountLimits",
"documentation": "",
"simpleType": "InstanceCountLimits",
"variableSetterType": "InstanceCountLimits"
},
"xmlNameSpaceUri": null
},
"nonStreamingMembers": [ {
"beanStyleGetterMethodName": "getInstanceCountLimits",
"beanStylesetterMethodName": "setInstanceCountLimits",
"c2jName": "InstanceCountLimits",
"c2jShape": "InstanceCountLimits",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the InstanceCountLimits property for this object.\n\nThis is a convenience that creates an instance of the [@link InstanceCountLimits.Builder] avoiding the need to create one manually via [@link InstanceCountLimits.Builder#builder()].\n\nWhen the [@link Consumer] completes, [@link InstanceCountLimits.Builder#build()] is called immediately and its result is passed to [@link #instanceCountLimits(InstanceCountLimits)].\n\n@param instanceCountLimits a consumer that will call methods on
{@link InstanceCountLimits.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #instanceCountLimits(InstanceCountLimits)"

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceCountLimits",
"fluentSetterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.\n\n@param instanceCountLimits The new value for the InstanceCountLimits property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "instanceCountLimits",
"getterDocumentation" : "Returns the value of the InstanceCountLimits property for this object.\n\n@return The value of the InstanceCountLimits property for this object.",
"getterModel" : {
  "returnType" : "InstanceCountLimits",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "InstanceCountLimits",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "InstanceCountLimits",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "InstanceCountLimits",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.\n\n@param
instanceCountLimits The new value for the InstanceCountLimits property for this object.

"setterMethodName" : "setInstanceCountLimits",
"setterModel" : {
  "variableDeclarationType" : "InstanceCountLimits",
  "variableName" : "instanceCountLimits",
  "variableType" : "InstanceCountLimits",
  "documentation" : null,
  "simpleType" : "InstanceCountLimits",
  "variableSetterType" : "InstanceCountLimits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "InstanceCountLimits",
  "variableName" : "instanceCountLimits",
  "variableType" : "InstanceCountLimits",
  "documentation" : null,
  "simpleType" : "InstanceCountLimits",
  "variableSetterType" : "InstanceCountLimits"
},
"xmlNameSpaceUri" : null
}

"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "InstanceLimits",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "InstanceLimits",
  "variableName" : "instanceLimits",
  "variableType" : "InstanceLimits",
  "documentation" : null,
  "simpleType" : "InstanceLimits",
  "variableSetterType" : "InstanceLimits"
},
"wrapper" : false
},
"InternalException" : {
  "c2jName" : "InternalException",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0,
"deprecated" : false,
"documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : "InternalException",
"event" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 500,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "InternalException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "InternalException",
  "variableName" : "internalException",
  "variableType" : "InternalException",
  "documentation" : null,
  "simpleType" : "InternalException",
  "variableSetterType" : "InternalException"
},
"wrapper" : false
},
"InvalidTypeException" : {
  "c2jName" : "InvalidTypeException",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>An exception for trying to create or access sub-resource that is either invalid or not supported. Gives http status code of 409.</p>"
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : "InvalidTypeException",
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 409,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "InvalidTypeException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "InvalidTypeException",
  "variableName" : "invalidTypeException",
  "variableType" : "InvalidTypeException",
  "documentation" : null,
  "simpleType" : "InvalidTypeException",
  "variableSetterType" : "InvalidTypeException"
},
"wrapper" : false
},
"LimitExceededException" : {
  "c2jName" : "LimitExceededException",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>An exception for trying to create more than allowed resources or sub-resources. Gives http status code of 409.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : "LimitExceededException",
  "event" : false,
  "eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 409,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "LimitExceededException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : { 
  "variableDeclarationType" : "LimitExceededException",
  "variableName" : "limitExceededException",
  "variableType" : "LimitExceededException",
  "documentation" : null,
  "simpleType" : "LimitExceededException",
  "variableSetterType" : "LimitExceededException"
},
"wrapper" : false
},
"Limits" : { 
  "c2jName" : "Limits",
  "customization" : { 
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Limits for given InstanceType and for each of its role. <br/>Limits contains following <code><a>StorageTypes</a></code>, <code><a>InstanceLimits</a></code> and <code><a>AdditionalLimits</a></code> and <code><a>EndpointDiscovery</a></code>".
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [
    "beanStyleGetterMethodName" : "getStorageTypes",
    "beanStyleSetterMethodName" : "setStorageTypes",
    "c2jName" : "StorageTypes",
    "c2jShape" : "StorageTypeList",
    "defaultConsumerFluentSetterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. This is a convenience that creates an instance of the <a>List<StorageType>.Builder</a> avoiding the need to create one manually via <a>List<StorageType>#builder()</a>. When the <a>Consumer</a> completes, <a>List<StorageType>.Builder#build()</a> is called immediately and its result is passed to <a>List<StorageType></a>.

@see <a>List<StorageType></a>",
    "deprecated" : false,
    "documentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "storageTypes",
    "fluentSetterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>

@see <a>List<StorageType></a>",
    "fluentSetterMethodName" : "storageTypes",
    "getterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@see <a>List<StorageType></a>",
    "getterModel" : {
        "returnType" : "java.util.List<StorageType>",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "StorageTypes",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StorageTypes",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "StorageType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the {@link StorageType.Builder} avoiding the need to create one manually via {@link StorageType.Builder#builder()}. When the {@link Consumer} completes, {@link StorageType.Builder#build()} is called immediately and its result is passed to {@link StorageType.Builder#member(StorageType)}.\n\n@see #member(StorageType)\n",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n@see #member(StorageType)\n",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n@see #member(StorageType)\n",
    "getterModel" : {
      "returnType" : "StorageType",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false}

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "StorageType",
  "variableName" : "member",
  "variableType" : "StorageType",
  "documentation" : null,
  "simpleType" : "StorageType",
  "variableSetterType" : "StorageType"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "StorageType",
  "variableName" : "member",
  "variableType" : "StorageType",
  "documentation" : "",
  "simpleType" : "StorageType",
  "variableSetterType" : "StorageType"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "StorageType"
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"complexType" : "StorageType",
"templateImplType" : "java.util.ArrayList<StorageType>",
"templateType" : "java.util.List<StorageType>"}

"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StorageTypes",
"setterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. &lt;/p&gt;&lt;p&gt;StorageType represents the list of storage related types and attributes that are available for given InstanceType.&lt;/p&gt;&lt;p&gt;StorageType represents the list of storage related types and attributes that are available for given InstanceType.&lt;/p&gt;",
"setterMethodName" : "setStorageTypes",
"setterModel" : {
"variableDeclarationType" : "java.util.List<StorageType>",
"variableName" : "storageTypes",
"variableType" : "java.util.List<StorageType>",
"documentation" : null,
"simpleType" : "List<StorageType>",
"variableSetterType" : "java.util.Collection<StorageType>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<StorageType>",
"variableName" : "storageTypes",
"variableType" : "java.util.List<StorageType>",
"documentation" : "StorageType represents the list of storage related types and attributes that are available for given InstanceType. &lt;/p&gt;",
"simpleType" : "List<StorageType>",
"variableSetterType" : "java.util.Collection<StorageType>"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getInstanceLimits",
"beanStyleSetterMethodName" : "setInstanceLimits",
"c2jName" : "InstanceLimits",
"c2jShape" : "InstanceLimits",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the InstanceLimits property for this object.

This is a convenience that creates an instance of the [@link InstanceLimits.Builder] avoiding the need to create one manually via [@link InstanceLimits#builder()].

When the [@link Consumer] completes, [@link InstanceLimits.Builder#build()] is called immediately and its result is passed to [@link InstanceLimits(InstanceLimits)].

@method return returns a reference to this object so that method calls can be chained
@see #instanceLimits(InstanceLimits)

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceLimits",
"fluentSetterDocumentation" : "Sets the value of the InstanceLimits property for this object.

@param instanceLimits The new value for the InstanceLimits property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "instanceLimits",
"getterDocumentation" : "Returns the value of the InstanceLimits property for this object.

@return The value of the InstanceLimits property for this object.",
"getterModel" : {  
    "returnType" : "InstanceLimits",
    "documentation" : null
  },
"http" : {  
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "InstanceLimits",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "InstanceLimits",
    "uri" : false
  },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "InstanceLimits",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the InstanceLimits property for this object.

@param instanceLimits The new value for the InstanceLimits property for this object.",
"setterModel" : {  
    "returnType" : "InstanceLimits",
    "documentation" : null
  },
"setterMethodName" : "setInstanceLimits",
"setterModel" : {
    "variableDeclarationType" : "InstanceLimits",
    "variableName" : "instanceLimits",
    "variableType" : "InstanceLimits",
    "documentation" : null,
    "simpleType" : "InstanceLimits",
    "variableSetterType" : "InstanceLimits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "InstanceLimits",
    "variableName" : "instanceLimits",
    "variableType" : "InstanceLimits",
    "documentation" : null,
    "simpleType" : "InstanceLimits",
    "variableSetterType" : "InstanceLimits"
},
"xmlNameSpaceUri" : null
}

"beanStyleGetterMethodName" : "getAdditionalLimits",
"beanStyleSetterMethodName" : "setAdditionalLimits",
"c2jName" : "AdditionalLimits",
"c2jShape" : "AdditionalLimitList",
"defaultConsumerFluentSetterDocumentation" : "<p>List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code>. This is a convenience that creates an instance of the { @link List<AdditionalLimit> .Builder} avoiding the need to create one manually via { @link List<AdditionalLimit>#builder()}. When the { @link Consumer} completes, { @link List<AdditionalLimit>.Builder#build()} is called immediately and its result is passed to { @link #additionalLimits(List<AdditionalLimit>)}.
@param additionalLimits a consumer that will call methods on { @link List<AdditionalLimit>.Builder} that returns a reference to this object so that method calls can be chained together.{@link #additionalLimits(List<AdditionalLimit>)},
"deprecated" : false,
"documentation" : "List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code>. "</p>
"endpointDiscoveryId" : false,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentSetterDocumentation" : "List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code>. "</p>
"fluentSetterMethodName" : "additionalLimits",
"fluentSetterDocumentation" : "List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code>. "</p>
"@param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code>. "</p>\n@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "additionalLimits",
List of additional limits that are specific to a given InstanceType and for each of it's `<code>InstanceRole</code>`.

Attempts to modify the collection returned by this method will result in an `UnsupportedOperationException`.

@return List of additional limits that are specific to a given InstanceType and for each of it's `<code>InstanceRole</code>`.
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.",
"getterModel" : {
  "returnType" : "AdditionalLimit",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "AdditionalLimit",
  "variableName" : "member",
  "variableType" : "AdditionalLimit",
  "documentation" : null,
"simpleType": "AdditionalLimit",
"variableSetterType": "AdditionalLimit"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "AdditionalLimit",
  "variableName": "member",
  "variableType": "AdditionalLimit",
  "documentation": "",
  "simpleType": "AdditionalLimit",
  "variableSetterType": "AdditionalLimit"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "AdditionalLimit",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "AdditionalLimit",
"templateImplType": "java.util.ArrayList<AdditionalLimit>",
"templateType": "java.util.List<AdditionalLimit>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "AdditionalLimits",
"sensitive": false,
"setterDocumentation": "<p>List of additional limits that are specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt;.</p>
@param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt;.

"setterMethodName": "setAdditionalLimits",
"setterModel": {
  "variableDeclarationType": "java.util.List<AdditionalLimit>",
  "variableName": "additionalLimits",
  "variableType": "java.util.List<AdditionalLimit>",
  "documentation": null,
  "simpleType": "List<AdditionalLimit>",
  "variableSetterType": "java.util.Collection<AdditionalLimit>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<AdditionalLimit>",
  "variableName": "additionalLimits",
  "variableType": "java.util.List<AdditionalLimit>"}
"documentation" : "<p> List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> . </p>",
"simpleType" : "List<AdditionalLimit>",
"variableSetterType" : "java.util.Collection<AdditionalLimit>",
"xmlNameSpaceUri" : null
}

"membersAsMap" : {
 "AdditionalLimits" : {
 "beanStyleGetterMethodName" : "getAdditionalLimits",
 "beanStyleSetterMethodName" : "setAdditionalLimits",
 "c2jName" : "AdditionalLimits",
 "c2jShape" : "AdditionalLimitList",
 "defaultConsumerFluentSetterDocumentation" : "<p> List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> . </p>
This is a convenience that creates an instance of the {@link List<AdditionalLimit>.Builder} avoiding the need to create one manually via {@link List<AdditionalLimit>#builder()}. When the {@link Consumer} completes, {@link List<AdditionalLimit>.Builder#build()} is called immediately and its result is passed to {@link #additionalLimits(List<AdditionalLimit>)}.\n
@mustReturn\n@see #additionalLimits(List<AdditionalLimit>)",
 "deprecated" : false,
 "documentation" : "<p> List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> . </p>",
 "endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "additionalLimits",
 "fluentSetterDocumentation" : "<p> List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> . </p>
@param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code>.\n@return Returns a reference to this object so that method calls can be chained together."
","fluentSetterMethodName" : "additionalLimits",
 "getterDocumentation" : "<p> Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n</p>\n@mustReturn\n@see List<AdditionalLimit>"
 "getterModel" : {
 "returnType" : "java.util.List<AdditionalLimit>",
 "documentation" : null
 },
 "http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
{"greedy":false,
"header":false,
"isPayload":false,
"isStreaming":false,
"location":null,
"marshallLocation":"PAYLOAD",
"marshallLocationName":"AdditionalLimits",
"queryString":false,
"statusCode":false,
"unmarshallLocationName":"AdditionalLimits",
"uri":false
},
"idempotencyToken":false,
"isBinary":false,
"jsonValue":false,
"list":true,
"listModel":{
  "implType":"java.util.ArrayList",
  "interfaceType":"java.util.List",
  "listMemberModel":{
    "beanStyleGetterMethodName":"getMember",
    "beanStyleSetterMethodName":"setMember",
    "c2jName":"member",
    "c2jShape":"AdditionalLimit",
    "defaultConsumerFluentSetterDocumentation":"Sets the value of the Member property for this object. This is a convenience that creates an instance of the \{@link AdditionalLimit.Builder\} avoiding the need to create one manually via \{@link AdditionalLimit#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link AdditionalLimit.Builder#build()\} is called immediately and its result is passed to \{@link #member(AdditionalLimit)\}\.\n@see #member(AdditionalLimit)\",
    "deprecated":false,
    "documentation":"
    "endpointDiscoveryId":false,
    "enumType":null,
    "eventHeader":false,
    "eventPayload":false,
    "fluentEnumGetterMethodName":null,
    "fluentEnumSetterMethodName":null,
    "fluentGetterMethodName":"member",
    "fluentSetterDocumentation":"Sets the value of the Member property for this object.\n\n@see #member(AdditionalLimit)\",
    "fluentSetterMethodName":"member",
    "getterDocumentation":"Returns the value of the Member property for this object.\n\n@see #member(AdditionalLimit)\",
    "getterModel":{
      "returnType":"AdditionalLimit",
    }
  }
}
"documentation" : null
],
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.\n",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "AdditionalLimit",
  "variableName" : "member",
  "variableType" : "AdditionalLimit",
  "documentation" : null,
  "simpleType" : "AdditionalLimit",
  "variableSetterType" : "AdditionalLimit"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AdditionalLimit",
  "variableName" : "member",
  "variableType" : "AdditionalLimit",
  "documentation" : "",
  "simpleType" : "AdditionalLimit",
  "variableSetterType" : "AdditionalLimit"
"setterDocumentation" : "List of additional limits that are specific to a given InstanceType and for each of it's InstanceRole.

@\param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's InstanceRole.

"setterMethodName" : "setAdditionalLimits",
"setterModel" : {
    "variableDeclarationType" : "java.util.List<AdditionalLimit>",
    "variableName" : "additionalLimits",
    "variableType" : "java.util.List<AdditionalLimit>",
    "documentation" : null,
    "simpleType" : "List<AdditionalLimit>",
    "variableSetterType" : "java.util.Collection<AdditionalLimit>",
}
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.List<AdditionalLimit>",
    "variableName" : "additionalLimits",
    "variableType" : "java.util.List<AdditionalLimit>",
    "documentation" : "List of additional limits that are specific to a given InstanceType and for each of it's InstanceRole.

@\param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's InstanceRole.

"setterMethodName" : "setAdditionalLimits",
"setterModel" : {
    "variableDeclarationType" : "java.util.List<AdditionalLimit>",
    "variableName" : "additionalLimits",
    "variableType" : "java.util.List<AdditionalLimit>",
    "documentation" : null,
    "simpleType" : "List<AdditionalLimit>",
    "variableSetterType" : "java.util.Collection<AdditionalLimit>",
}
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.List<AdditionalLimit>",
    "variableName" : "additionalLimits",
    "variableType" : "java.util.List<AdditionalLimit>",
    "documentation" : "List of additional limits that are specific to a given InstanceType and for each of it's InstanceRole.

@\param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's InstanceRole.

"setterMethodName" : "setAdditionalLimits",
"setterModel" : {
    "variableDeclarationType" : "java.util.List<AdditionalLimit>",
    "variableName" : "additionalLimits",
    "variableType" : "java.util.List<AdditionalLimit>",
    "documentation" : null,
    "simpleType" : "List<AdditionalLimit>",
    "variableSetterType" : "java.util.Collection<AdditionalLimit>",
}
"simple" : false,
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the InstanceLimits property for this object. This is a convenience that creates an instance of the [@link InstanceLimits.Builder] avoiding the need to create one manually via [@link InstanceLimits#builder()].

When the [@link Consumer] completes, [@link InstanceLimits.Builder#build()] is called immediately and its result is passed to [@link InstanceLimits(InstanceLimits)].

@see #instanceLimits(InstanceLimits)

@return Returns a reference to this object so that method calls can be chained together.

@deprecated : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceLimits",
"fluentSetterDocumentation" : "Sets the value of the InstanceLimits property for this object.

@param instanceLimits The new value for the InstanceLimits property for this object.
@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "instanceLimits",
"getterDocumentation" : "Returns the value of the InstanceLimits property for this object.

@param instanceLimits The new value for the InstanceLimits property for this object.
@return The value of the InstanceLimits property for this object.

"getterModel" : {
  "returnType" : "InstanceLimits",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "InstanceLimits",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "InstanceLimits",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"uri" : false}
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "InstanceLimits",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the InstanceLimits property for this object.
@param instanceLimits The new value for the InstanceLimits property for this object."

"setterMethodName" : "setInstanceLimits",
"setterModel" : {
    "variableDeclarationType" : "InstanceLimits",
    "variableName" : "instanceLimits",
    "variableType" : "InstanceLimits",
    "documentation" : null,
    "simpleType" : "InstanceLimits",
    "variableSetterType" : "InstanceLimits"
},
"simple" : false,
"timestampFormat" : null,

"variable" : {
    "variableDeclarationType" : "InstanceLimits",
    "variableName" : "instanceLimits",
    "variableType" : "InstanceLimits",
    "documentation" : null,
    "simpleType" : "InstanceLimits",
    "variableSetterType" : "InstanceLimits"
},
"xmlNameSpaceUri" : null
},
"StorageTypes" : {
    "beanStyleGetterMethodName" : "getStorageTypes",
    "beanStyleSetterMethodName" : "setStorageTypes",
    "c2jName" : "StorageTypes",
    "c2jShape" : "StorageTypeList",
    "defaultConsumerFluentSetterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. This is a convenience that creates an instance of the {@link List<StorageType>.Builder} avoiding the need to create one manually via {@link List<StorageType>#builder()}. When the {@link Consumer} completes, {@link List<StorageType>.Builder#build()} is called immediately and its result is passed to {@link #storageTypes(List<StorageType>)}. @param storageTypes a consumer that will call methods on {@link List<StorageType>.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #storageTypes(List<StorageType>)"
},
"deprecated" : false,
"documentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "storageTypes",
"fluentSetterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. \n@param storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType. \n@return Returns a reference to this object so that method calls can be chained together.\n</p>\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@return StorageType represents the list of storage related types and attributes that are available for given InstanceType.\n",
"getterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. \n</p>

<p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n</p>

@return StorageType represents the list of storage related types and attributes that are available for given InstanceType.
",
"getterModel" : {
  "returnType" : "java.util.List<StorageType>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StorageTypes",
  "queryString" : false,
  "statusCode" : true,
  "unmarshallLocationName" : "StorageTypes",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "StorageType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the [@link StorageType.Builder] avoiding the need to create one manually via {@link StorageType.Builder#build()}.\n\nWhen the [@link Consumer] completes, [@link StorageType.Builder#build()] is called immediately and its result is passed to [@link #member(StorageType)].\n@param member a consumer that will call methods on [@link
StorageType.Builder\n\n@see #member(StorageType)

\n
@return Returns a reference to this object so that method calls can be chained together.

\n
@see #member(StorageType)

\n
The new value for the Member property for this object.

\n
@return Returns a reference to this object so that method calls can be chained together.

\n
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

\n
@param member

The value of the Member property for this object.

\n
@return The value of the Member property for this object.

\n
"getterModel" : {
"returnType" : "StorageType",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
" sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

\n
@param member

The
new value for the Member property for this object.

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "StorageType",
  "variableName" : "member",
  "variableType" : "StorageType",
  "documentation" : null,
  "simpleType" : "StorageType",
  "variableSetterType" : "StorageType"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "StorageType",
  "variableName" : "member",
  "variableType" : "StorageType",
  "documentation" : null,
  "simpleType" : "StorageType",
  "variableSetterType" : "StorageType"
},
"xmlNameSpaceUri" : null }

"memberLocationName" : null,
"memberType" : "StorageType",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "StorageType",
"templateImplType" : "java.util.ArrayList<StorageType>",
"templateType" : "java.util.List<StorageType>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StorageTypes",
"sensitive" : false,
"setterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p><p>\n@param storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType.".,
"setterMethodName" : "setStorageTypes",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<StorageType>",
  "variableName" : "storageTypes",
  "variableType" : "java.util.List<StorageType>",
  "documentation" : null,
  "simpleType" : "List<StorageType>",
  "variableSetterType" : "java.util.Collection<StorageType>"
"variable": {
    "variableDeclarationType": "java.util.List<StorageType>",
    "variableName": "storageTypes",
    "variableType": "java.util.List<StorageType>",
    "documentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>",
    "simpleType": "List<StorageType>",
    "variableSetterType": "java.util.Collection<StorageType>"
  },
  "xmlNameSpaceUri": null}
]

"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getStorageTypes",
    "beanStyleSetterMethodenName": "setStorageTypes",
    "c2jName": "StorageTypes",
    "c2jShape": "StorageTypeList",
    "defaultConsumerFluentSetterDocumentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. This is a convenience that creates an instance of the { @link List<StorageType>.Builder} avoiding the need to create one manually via { @link List<StorageType>#builder()}. When the { @link Consumer} completes, { @link List<StorageType>.Builder#build()} is called immediately and its result is passed to { @link #storageTypes(List<StorageType>)}. @param storageTypes a consumer that will call methods on { @link List<StorageType>.Builder}.
@see #storageTypes(List<StorageType>)",
    "deprecated": false,
    "documentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "storageTypes",
    "fluentSetterDocumentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>
@param storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType.
@return Returns a reference to this object so that method calls can be chained together.
@see #storageTypes(List<StorageType>)",
    "fluentSetterMethodName": "storageTypes",
    "getterDocumentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>
@throws UnsupportedOperationException Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
@return StorageType represents the list of storage related types and attributes that are available for given InstanceType.
@see #storageTypes(List<StorageType>)",
    "getterModel": {
        "simple": false,
        "timestampFormat": null,
        "variable": {
            "variableDeclarationType": "java.util.List<StorageType>",
            "variableName": "storageTypes",
            "variableType": "java.util.List<StorageType>",
            "documentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>",
            "simpleType": "List<StorageType>",
            "variableSetterType": "java.util.Collection<StorageType>"
        },
        "xmlNameSpaceUri": null
    }"}
"returnType" : "java.util.List<StorageType>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "StorageTypes",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StorageTypes",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "StorageType",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the {@link StorageType.Builder} avoiding the need to create one manually via {@link StorageType.Builder#build()}. When the {@link Consumer} completes, {@link StorageType.Builder#build()} is called immediately and its result is passed to {@link StorageType.Builder#member(StorageType)}.
@see #member(StorageType)
@deprecation
"documentation" : 
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.
@see #member(StorageType)"
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object."
}"param member
The new value for the Member property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.

"getterModel" : {
  "returnType" : "StorageType",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "StorageType",
  "variableName" : "member",
  "variableType" : "StorageType",
  "documentation" : null,
  "simpleType" : "StorageType",
  "variableSetterType" : "StorageType"
},
"simple" : false,
"timestampFormat" : null,
"variable": {
  "variableDeclarationType": "StorageType",
  "variableName": "member",
  "variableType": "StorageType",
  "documentation": "",
  "simpleType": "StorageType",
  "variableSetterType": "StorageType"
},
"xmlNameSpaceUri": null,
"memberLocationName": null,
"memberType": "StorageType",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "StorageType",
"templateImplType": "java.util.ArrayList<StorageType>",
"templateType": "java.util.List<StorageType>",
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "StorageTypes",
"sensitive": false,
"setterDocumentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. 
@param storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType.",
"setterMethodName": "setStorageTypes",
"setterModel": {
  "variableDeclarationType": "java.util.List<StorageType>",
  "variableName": "storageTypes",
  "variableType": "java.util.List<StorageType>",
  "documentation": null,
  "simpleType": "List<StorageType>",
  "variableSetterType": "java.util.Collection<StorageType>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<StorageType>",
  "variableName": "storageTypes",
  "variableType": "java.util.List<StorageType>",
  "documentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. 
</p>",
  "simpleType": "List<StorageType>",
  "variableSetterType": "java.util.Collection<StorageType>"
},
"xmlNameSpaceUri" : null,
 ], {
  "beanStyleGetterMethodName" : "getInstanceLimits",
  "beanStyleSetterMethodName" : "setInstanceLimits",
  "c2jName" : "InstanceLimits",
  "c2jShape" : "InstanceLimits",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the InstanceLimits property for this object.\nThis is a convenience that creates an instance of the {@link InstanceLimits.Builder} avoiding the need to
create one manually via {@link InstanceLimits.Builder#builder()}.\nWhen the {@link Consumer} completes, {@link InstanceLimits.Builder#build()} is called immediately and its result is passed to {@link #instanceLimits(InstanceLimits)}.\n\n@param instanceLimits a consumer that will call methods on {@link InstanceLimits.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #instanceLimits(InstanceLimits)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "instanceLimits",
  "fluentSetterDocumentation" : "Sets the value of the InstanceLimits property for this object.\nThe new value for the InstanceLimits property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "instanceLimits",
  "getterDocumentation" : "Returns the value of the InstanceLimits property for this object.\n@return The value of the InstanceLimits property for this object.",
  "getterModel" : {
    "returnType" : "InstanceLimits",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "InstanceLimits",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "InstanceLimits",
    "uri" : false
  }
},

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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "InstanceLimits",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the InstanceLimits property for this object.\n\n@param instanceLimits The new value for the InstanceLimits property for this object.\n",
"setterMethodName" : "setInstanceLimits",
"setterModel" : {
  "variableDeclarationType" : "InstanceLimits",
  "variableName" : "instanceLimits",
  "variableType" : "InstanceLimits",
  "documentation" : null,
  "simpleType" : "InstanceLimits",
  "variableSetterType" : "InstanceLimits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "InstanceLimits",
  "variableName" : "instanceLimits",
  "variableType" : "InstanceLimits",
  "documentation" : null,
  "simpleType" : "InstanceLimits",
  "variableSetterType" : "InstanceLimits"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getAdditionalLimits",
"beanStyleSetterMethodName" : "setAdditionalLimits",
"c2jName" : "AdditionalLimits",
"c2jShape" : "AdditionalLimitList",
"defaultConsumerFluentSetterDocumentation" : "\n\n<p>List of additional limits that are specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>. \nThis is a convenience that creates an instance of the { @link List&lt;AdditionalLimit&gt;.Builder} avoiding the need to create one manually via { @link List&lt;AdditionalLimit&gt;#builder()}\n\nWhen the { @link Consumer} completes, { @link List&lt;AdditionalLimit&gt;.Builder#build()} is called immediately and its result is passed to { @link #additionalLimits(List&lt;AdditionalLimit&gt;)}.\n\n@param additionalLimits a consumer that will call methods on { @link List&lt;AdditionalLimit&gt;.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #additionalLimits(List&lt;AdditionalLimit&gt;)\n",
"deprecated" : false,
"documentation" : "\n\n<p>List of additional limits that are specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>. \nThis is a convenience that creates an instance of the { @link List&lt;AdditionalLimit&gt;.Builder} avoiding the need to create one manually via { @link List&lt;AdditionalLimit&gt;#builder()}\n\nWhen the { @link Consumer} completes, { @link List&lt;AdditionalLimit&gt;.Builder#build()} is called immediately and its result is passed to { @link #additionalLimits(List&lt;AdditionalLimit&gt;)}.\n\n@param additionalLimits a consumer that will call methods on { @link List&lt;AdditionalLimit&gt;.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #additionalLimits(List&lt;AdditionalLimit&gt;)\n",
"
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "additionalLimits",
"fluentSetterDocumentation": "\n\@param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's \</code> &lt;a\>InstanceRole\</a\> \</code>\n\@return Returns a reference to this object so that method calls can be chained together.\",
"fluentSetterMethodName": "additionalLimits",
"getterDocumentation": "\n\p List of additional limits that are specific to a given InstanceType and for each of it's \</code> &lt;a\>InstanceRole\</a\> \</code>\n\p\nAttempts to modify the collection returned by this method will result in a UnsupportedOperationException.\n\p\n\@return List of additional limits that are specific to a given InstanceType and for each of it's \</code> &lt;a\>InstanceRole\</a\> \</code>\n",
"getterModel": {  
"returnType": "java.util.List\&lt;AdditionalLimit\>",
"documentation": null
},
"http": {  
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "AdditionalLimits",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "AdditionalLimits",
"uri": false
},
idempotencyToken": false,
isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {  
"implType": "java.util.ArrayList",
"interfaceType": "java.util.List",
"listMemberModel": {  
"beanStyleGetterMethodName": "getMember",
"beanStyleSetterMethodName": "setMember",
"c2jName": "member",
"c2jShape": "AdditionalLimit",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "additionalLimits",
"fluentSetterDocumentation": "\n\@param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's \</code> &lt;a\>InstanceRole\</a\> \</code>\n\@return Returns a reference to this object so that method calls can be chained together.\",
"fluentSetterMethodName": "additionalLimits",
"getterDocumentation": "\n\p List of additional limits that are specific to a given InstanceType and for each of it's \</code> &lt;a\>InstanceRole\</a\> \</code>\n\p\nAttempts to modify the collection returned by this method will result in a UnsupportedOperationException.\n\p\n\@return List of additional limits that are specific to a given InstanceType and for each of it's \</code> &lt;a\>InstanceRole\</a\> \</code>\n",
"getterModel": {  
"returnType": "java.util.List\&lt;AdditionalLimit\>",
"documentation": null
},
"http": {  
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "AdditionalLimits",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "AdditionalLimits",
"uri": false
},
idempotencyToken": false,
isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {  
"implType": "java.util.ArrayList",
"interfaceType": "java.util.List",
"listMemberModel": {  
"beanStyleGetterMethodName": "getMember",
"beanStyleSetterMethodName": "setMember",
"c2jName": "member",
"c2jShape": "AdditionalLimit",\n\nOpen Source Used In SDWan 20.6.1 24757
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the AdditionalLimit.Builder avoiding the need to create one manually via AdditionalLimit.Builder(builder()). When the Consumer completes, AdditionalLimit.Builder.Builder.build() is called immediately and its result is passed to AdditionalLimit.Builder().

@see member(AdditionalLimit)

@return Returns a reference to this object so that method calls can be chained together.
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.
",
"getterModel" : {

"returnType" : "AdditionalLimit",

"documentation" : null
}

,"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : false,

"header" : false,

"isPayload" : false,

"isStreaming" : false,

"location" : null,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "member",

"queryString" : false,

"statusCode" : false,

"unmarshallLocationName" : "member",

"uri" : false
}

,"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "AdditionalLimit",
  "variableName" : "member",
  "variableType" : "AdditionalLimit",
  "documentation" : null,
  "simpleType" : "AdditionalLimit",
  "variableSetterType" : "AdditionalLimit"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AdditionalLimit",
  "variableName" : "member",
  "variableType" : "AdditionalLimit",
  "documentation" : null,
  "simpleType" : "AdditionalLimit",
  "variableSetterType" : "AdditionalLimit"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "AdditionalLimit",
"map" : false,
"memberModel" : {
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "LIST",
  "name" : "AdditionalLimits",
  "sensitive" : false,
  "setterDocumentation" : "List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code>. \n@n@param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code>.",
  "setterMethodName" : "setAdditionalLimits",
  "setterModel" : {
    "variableDeclarationType" : "java.util.ArrayList<AdditionalLimit>",
    "variableName" : "additionalLimits",
    "variableType" : "java.util.List<AdditionalLimit>",
    "documentation" : null,
    "simpleType" : "java.util.List<AdditionalLimit>",
    "variableSetterType" : "java.util.List<AdditionalLimit>",
    "variableAdditionalMarshallingPath" : null,
    "variableAdditionalUnmarshallingPath" : null,
    "simple" : false,
    "simpleType" : "java.util.List<AdditionalLimit>",
    "templateImplType" : "java.util.ArrayList<AdditionalLimit>",
    "templateType" : "java.util.List<AdditionalLimit>""}
"variableName" : "additionalLimits",
"variableType" : "java.util.List<AdditionalLimit>",
"documentation" : null,
"simpleType" : "List<AdditionalLimit>",
"variableSetterType" : "java.util.Collection<AdditionalLimit>
}
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<AdditionalLimit>",
"variableName" : "additionalLimits",
"variableType" : "java.util.List<AdditionalLimit>",
"documentation" : "<p> List of additional limits that are specific to a given InstanceType and for each of it's
<code> <a>InstanceRole</a> </code> . </p>",
"simpleType" : "List<AdditionalLimit>",
"variableSetterType" : "java.util.Collection<AdditionalLimit>
}
},
"xmlNameSpaceUri" : null
} ]
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "Limits",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
}
},
"variable" : {
"variableDeclarationType" : "Limits",
"variableName" : "limits",
"variableType" : "Limits",
"documentation" : null,
"simpleType" : "Limits",
"variableSetterType" : "Limits"
},
"wrapper" : false
},
"ListDomainNamesRequest" : {
"c2jName" : "ListDomainNamesRequest",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
}
},
"deprecated" : false,
The result of a `ListDomainNames` operation. Contains the names of all Elasticsearch domains owned by this account.

This convenience creates an instance of the `List<DomainInfo>` avoiding the need to create one manually via `List<DomainInfo>#builder()`. When the `List<DomainInfo>.Builder#build()` is called immediately and its result is passed to `List<DomainNames(List<DomainInfo>)`. Returns a reference to this object so that method calls can be chained together.

Attempts to modify the collection returned by this method will result in an `UnsupportedOperationException`.

List of Elasticsearch domain names. Returns a reference to this object so that method calls can be chained together.

Attempts to modify the collection returned by this method will result in an `UnsupportedOperationException`.

List of Elasticsearch domain names.

List of Elasticsearch domain names.

List of Elasticsearch domain names.

List of Elasticsearch domain names.

List of Elasticsearch domain names.

List of Elasticsearch domain names.

List of Elasticsearch domain names.

List of Elasticsearch domain names.

List of Elasticsearch domain names.

List of Elasticsearch domain names.

List of Elasticsearch domain names.

List of Elasticsearch domain names.
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainNames",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainNames",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "DomainInfo",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the DomainInfo.Builder avoiding the need to create one manually via DomainInfo.Builder(). When the Consumer completes, DomainInfo.Builder#build() is called immediately and its result is passed to domainInfo().\n@param member a consumer that will call methods on DomainInfoBuilderInterface\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(DomainInfo)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the DomainInfo.Builder avoiding the need to create one manually via DomainInfo.Builder(). When the Consumer completes, DomainInfo.Builder#build() is called immediately and its result is passed to domainInfo().\n@param member a consumer that will call methods on DomainInfoBuilderInterface\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(DomainInfo)",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of
the Member property for this object.

@getterModel

getMember() {
  returnType: DomainInfo,
  documentation: null
}

http:

additionalMarshallingPath: null,
additionalUnmarshallingPath: null,
flattened: false,
greedy: false,
header: false,
isPayload: false,
isStreaming: false,
location: null,
marshallLocation: PAYLOAD,
marshallLocationName: member,
queryString: false,
statusCode: false,
unmarshallLocationName: member,
uri: false

idempotencyToken: false,
isBinary: false,
jsonValue: false,
list: false,
listModel: null,
map: false,
mapModel: null,
marshallingType: SDK_POJO,
name: Member,
sensitive: false,
setterDocumentation: "Sets the value of the Member property for this object.\n
@param member The new value for the Member property for this object."

setterMethodName: setMember,
setterModel: {
  variableDeclarationType: DomainInfo,
  variableName: member,
  variableType: DomainInfo,
  documentation: null,
  simpleType: DomainInfo,
  variableSetterType: DomainInfo
},
simple: false,
timestampFormat: null,
variable:

variableDeclarationType: DomainInfo,
variableName: member,
variableType: DomainInfo,
"documentation" : "",
"simpleType" : "DomainInfo",
"variableSetterType" : "DomainInfo"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "DomainInfo",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "DomainInfo",
"templateImplType" : "java.util.ArrayList<DomainInfo>",
"templateType" : "java.util.List<DomainInfo>
}
,
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainNames",
"sensitive" : false,
"setterDocumentation" : "<p>List of Elasticsearch domain names.</p>
@param domainNames List of Elasticsearch domain names.",
"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : null,
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : "<p>List of Elasticsearch domain names.</p>",
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "DomainNames" : {
    "beanStyleGetterMethodName" : "getDomainNames",
    "beanStyleSetterMethodName" : "setDomainNames",
    "map" : false,
    "mapModel" : null,
    "marshallingType" : "LIST",
    "name" : "DomainNames",
    "sensitive" : false,
    "setterDocumentation" : "<p>List of Elasticsearch domain names.</p>
@param domainNames List of Elasticsearch domain names.",
"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : null,
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : "<p>List of Elasticsearch domain names.</p>",
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>"
},
"xmlNameSpaceUri" : null
}]
}
"c2jName" : "DomainNames",
"c2jShape" : "DomainInfoList",

"defaultConsumerFluentSetterDocumentation" : "<p>List of Elasticsearch domain names.</p>
This is a convenience that creates an instance of the [ @link List<DomainInfo>.Builder] avoiding the need to create one manually via [ @link List<DomainInfo>#builder()].

When the [ @link Consumer] completes, [ @link List<DomainInfo>.Builder#build()] is called immediately and its result is passed to [ @link List<DomainInfo>.Builder] on a return Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p>List of Elasticsearch domain names.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainNames",

"fluentSetterDocumentation" : "<p>List of Elasticsearch domain names.</p>
@param domainNames List of Elasticsearch domain names.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "domainNames",

"getterDocumentation" : "<p>List of Elasticsearch domain names.</p>
<p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return List of Elasticsearch domain names.
",

"getterModel" : {
 "returnType" : "java.util.List<DomainInfo>",
 "documentation" : null
},

"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "DomainNames",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "DomainNames",
 "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "DomainInfo",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [@link DomainInfo.Builder] avoiding the need to create one manually via [@link DomainInfo#builder()]. When the [@link Consumer] completes, [@link DomainInfo.Builder#build()] is called immediately and its result is passed to [@link #member(DomainInfo)].

@param member a consumer that will call methods on [@link DomainInfo.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #member(DomainInfo)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
@return The new value for the Member property for this object.
@see #member(DomainInfo)",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.
@see #member(DomainInfo)",
  "getterModel" : {
    "returnType" : "DomainInfo",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "statusMessage" : null
  }
}
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n\n@param member The new value for the Member property for this object.

setterMethodName" : "setMember",
setterModel" : {
variableDeclarationType" : "DomainInfo",
"variableName" : "member",
variableType" : "DomainInfo",
documentation" : null,
"simpleType" : "DomainInfo",
variableSetterType" : "DomainInfo"
},
"simple" : false,
timestampFormat" : null,
"variable" : {
variableDeclarationType" : "DomainInfo",
"variableName" : "member",
variableType" : "DomainInfo",
documentation" : "",
"simpleType" : "DomainInfo",
variableSetterType" : "DomainInfo"
},
"xmlNameSpaceUri" : null
},
memberLocationName" : null,
"memberType" : "DomainInfo",
"map" : false,
memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
simpleType" : "DomainInfo",
templateImplType" : "java.util.ArrayList<DomainInfo>",
templateType" : "java.util.List<DomainInfo>
",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainNames",
"sensitive" : false,
"setterDocumentation" : "<p>List of Elasticsearch domain names.</p>
@param domainNames List of Elasticsearch domain names.",
"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : null,
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : "List of Elasticsearch domain names.",
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainNames",
  "beanStyleSetterMethodName" : "setDomainNames",
  "c2jName" : "DomainNames",
  "c2jShape" : "DomainInfoList",
  "defaultConsumerFluentSetterDocumentation" : "List of Elasticsearch domain names.
This is a convenience that creates an instance of the \{@link List\<DomainInfo\>.Builder\} avoiding the need to create one manually via \{@link List\<DomainInfo\>#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link List\<DomainInfo\>.Builder#build()\} is called immediately and its result is passed to \{@link #domainNames(List\<DomainInfo\>)\}.\n@param domainNames a consumer that will call methods on \{@link List\<DomainInfo\>\}.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #domainNames(List\<DomainInfo\>)",
  "deprecated" : false,
  "documentation" : "List of Elasticsearch domain names.",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainNames",
  "deprecated" : false,
  "documentation" : "List of Elasticsearch domain names.",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainNames"},
"fluentSetterDocumentation" : 
"List of Elasticsearch domain names.

@param domainNames List of Elasticsearch domain names.

@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "domainNames",
"getterDocumentation" : 
"List of Elasticsearch domain names.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return List of Elasticsearch domain names.
",
"getterModel" : {
"returnType" : "java.util.List<DomainInfo>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainNames",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainNames",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "DomainInfo",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the [DomainInfo.Builder] avoiding the need to create one manually via [DomainInfo.Builder].

When the [DomainInfo] completes, [DomainInfo.Builder#build()] is called immediately and its result is passed to [member(DomainInfo)].

@param member a consumer that will call methods on [DomainInfo]

@return Returns a reference to this object so that method calls can be chained together.
@see #member(DomainInfo)
",
"deprecated" : false,
"documentation" : ""
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterMethodName" : null,
"getterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member
The new value for the Member property for this object.\n@return Returns a reference to this object so that method
calls can be chained together.",
"getterMethodName" : "member",
"getterModel" : {
  "returnType" : "DomainInfo",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : true,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member
The new value for the Member property for this object.\n@return Returns a reference to this object so that method
calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "DomainInfo"
"variableName" : "member",
"variableType" : "DomainInfo",
"documentation" : null,
"simpleType" : "DomainInfo",
"variableSetterType" : "DomainInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "DomainInfo",
  "variableName" : "member",
  "variableType" : "DomainInfo",
  "documentation" : null,
  "simpleType" : "DomainInfo",
  "variableSetterType" : "DomainInfo"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "DomainInfo",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "DomainInfo",
"templateImplType" : "java.util.ArrayList<DomainInfo>",
"templateType" : "java.util.List<DomainInfo>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainNames",
"sensitive" : false,
"setterDocumentation" : "\n@param domainNames List of Elasticsearch domain names.";
"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : null,
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : null,
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : null,
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>",
},
"simple" : false,
"timestampFormat" : null,
"variableName" : "domainNames",
"variableType" : "java.util.List<DomainInfo>",
"documentation" : "<p>List of Elasticsearch domain names.</p>",
"simpleType" : "List<DomainInfo>",
"variableSetterType" : "java.util.Collection<DomainInfo>",
"xmlNameSpaceUri" : null
]},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ListDomainNamesResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "ListDomainNamesResponse",
  "variableName" : "listDomainNamesResponse",
  "variableType" : "ListDomainNamesResponse",
  "documentation" : null,
  "simpleType" : "ListDomainNamesResponse",
  "variableSetterType" : "ListDomainNamesResponse"
},
"wrapper" : false
},
"ListElasticsearchInstanceTypesRequest" : {
  "c2jName" : "ListElasticsearchInstanceTypesRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Container for the parameters to the <code><a>ListElasticsearchInstanceTypes</a></code> operation.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
"action" : "ListElasticsearchInstanceTypes",
"locationName" : null,
"requestUri" : "/2015-01-01/es/instanceTypes/{ElasticsearchVersion}",
"target" : null,
"verb" : "GET",
"xmlNameSpaceUri" : null
},
"members" : [ {
"beanStyleGetterMethodName" : "getElasticsearchVersion",
"beanStyleSetterMethodName" : "setElasticsearchVersion",
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #elasticsearchVersion(String)}.

@param elasticsearchVersion a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)
"deprecated" : false,
"documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@param elasticsearchVersion Version of Elasticsearch for which list of supported elasticsearch instance types are needed.
@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@returns Returns a reference to this object so that method calls can be chained together.
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": "uri",
"marshallLocation": "PATH",
"marshallLocationName": "ElasticsearchVersion",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ElasticsearchVersion",
"uri": true
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ElasticsearchVersion",
"setterDocumentation": "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>\n@param elasticsearchVersion Version of Elasticsearch for which list of supported elasticsearch instance types are needed.",
"setterMethodName": "setElasticsearchVersion",
"setterModel": {
    "variableDeclarationType": "String",
    "variableName": "elasticsearchVersion",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "String",
    "variableName": "elasticsearchVersion",
    "variableType": "String",
    "documentation": "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
    "simpleType": "String",
    "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #domainName(String)}

@param domainName a consumer that will call methods on { @link String.Builder}
@returns Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
"deprecated" : false,
"documentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>
@param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
"getterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>
@return DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.
@returns Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
"endpointDiscoveryId" : false,
"enumType" : null,
"marshallLocationName" : "domainName",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "domainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.</p>
@param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>_domainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.</p>
",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults",
"c2jShape" : "MaxResults"
"defaultConsumerFluentSetterDocumentation" : "\n<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>\nThis is a convenience that creates an instance of the `Integer.Builder` avoiding the need to create one manually via `Integer.builder()`.\nWhen the `maxResults` completes, `Integer.Builder.build()` is called immediately and its result is passed to `maxResults(Integer)`.\n@param maxResults a consumer that will call methods on `Integer.Builder`\n@return Returns a reference to this object so that method calls can be chained together.\n@see `maxResults(Integer)`",
"deprecated" : false,
"documentation" : "\n<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "\n<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>\n@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored.\n@return Returns a reference to this object so that method calls can be chained together."
",
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "\n<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>\n@return Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored."
",
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "maxResults",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "maxResults",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"sensitive" : false,
"setterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be
greater than 30 else it wont be honored. </p>\n\n@param maxResults Set this value to limit the number of results
returned. Value provided must be greater than 30 else it wont be honored. "}
"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be
greater than 30 else it wont be honored. </p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "NextToken",
  "defaultConsumerFluentSetterDocumentation" : "<p> NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>\n\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to
{ @link #nextToken(String)}.
\n@param nextToken a consumer that will call methods on { @link
String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #nextToken(String)",
  "deprecated" : false,
  "documentation" : "<p> NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination. </p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. \n@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. \n@return NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.\n",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. \n@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.",
"setterMethodName" : "setNextToken",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "nextToken",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
}
],
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "nextToken",
"variableType" : "String",
"documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination. </p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}],
"membersAsMap" : {
"DomainName" : {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>DomainName represents the name of the Domain that we
are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance
types when modifying existing domain. </p>\nThis is a convenience that creates an instance of the [@link
String.Builder] avoiding the need to create one manually via [@link String#builder()].\nWhen the [@link
Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link
#domainName(String)].\n@n@return Returns a reference to this object so that method calls can be chained together.\n@see
#domainName(String)",
"deprecated" : false,
"documentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This
should be present only if we are querying for list of available Elasticsearch instance types when modifying existing
domain. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to
modify. This should be present only if we are querying for list of available Elasticsearch instance types when
modifying existing domain. </p>
@n@param domainName DomainName represents the name of the Domain that we

are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.

```java
@returns Returns a reference to this object so that method calls can be chained together.
```

```java
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>

@returns DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.
```

```java
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
```

```java
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "domainName",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "domainName",
  "uri" : false
},
```

```java
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>

@returns DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.
```

```java
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
```
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "domainName",
 "variableType" : "String",
 "documentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.</p>",
 "simpleType" : "String",
 "variableSetterType" : "String"
 },
"xmlNameSpaceUri" : null
},
"ElasticsearchVersion" : {
 "beanStyleGetterMethodName" : "getElasticsearchVersion",
 "beanStyleSetterMethodName" : "setElasticsearchVersion",
 "c2jName" : "ElasticsearchVersion",
 "c2jShape" : "ElasticsearchVersionString",
 "defaultConsumerFluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes,{@link String.Builder#build()} is called immediately and its result is passed to {@link #elasticsearchVersion(String)}.

@see #elasticsearchVersion(String)",
 "deprecated" : false,
 "documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
 "endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "elasticsearchVersion",
 "fluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)",
 "deprecated" : false,
 "documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
 "endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "elasticsearchVersion",
 "fluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)",
 "deprecated" : false,
 "documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
"endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "elasticsearchVersion",
 "fluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)",
 "deprecated" : false,
 "documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
"endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "elasticsearchVersion",
 "fluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)",
 "deprecated" : false,
 "documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
"endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "elasticsearchVersion",
 "fluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)",
 "deprecated" : false,
 "documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
"endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
needed.

getterModel: {
    "returnType": "String",
    "documentation": null
},

http: {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": "uri",
    "marshallLocation": "PATH",
    "marshallLocationName": "ElasticsearchVersion",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "ElasticsearchVersion",
    "uri": true
},

idempotencyToken: false,

isBinary: false,

jsonValue: false,

list: false,

listModel: null,

map: false,

mapModel: null,

marshallingType: "STRING",

name: "ElasticsearchVersion",

sensitive: false,

setterDocumentation: "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>\n@param elasticsearchVersion Version of Elasticsearch for which list of supported elasticsearch instance types are needed",

setterMethodName: "setElasticsearchVersion",

setterModel: {
    "variableDeclarationType": "String",
    "variableName": "elasticsearchVersion",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
},

simple: true,

timestampFormat: null,

variable: {
    "variableDeclarationType": "String",
    "variableName": "elasticsearchVersion"}
"variableType" : "String",
"documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
"simpleType" : "String",
"variableSetterType" : "String"
}
,"xmlNameSpaceUri" : null
},
"MaxResults" : {
"beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults",
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}.<p>When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #setMaxResults(Integer)}, @param maxResults a consumer that will call methods on { @link Integer.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.@see #maxResults(Integer),
"deprecated" : false,
"documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored.@returns Returns a reference to this object so that method calls can be chained together.,
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
@returns Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored.,
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload": false,
"isStreaming": false,
"location": "querystring",
"marshallLocation": "QUERY_PARAM",
"marshallLocationName": "maxResults",
"queryString": true,
"statusCode": false,
"unmarshallLocationName": "maxResults",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "MaxResults",
"sensitive": false,
"setterDocumentation": "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored.",
"setterMethodName": "setMaxResults",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "maxResults",
  "variableType": "Integer",
  "documentation": null,
  "simple": true,
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "maxResults",
  "variableType": "Integer",
  "documentation": "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>",
  "simple": "Integer",
  "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
},
"NextToken": {
  "beanStyleGetterMethodName": "getNextToken",
  "beanStyleSetterMethodName": "setNextToken"
"c2jName" : "NextToken",
"c2jShape" : "NextToken",

"defaultConsumerFluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}. @return Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,

"documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>

"endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "nextToken",

"fluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>

"fluentSetterMethodName" : "nextToken",

"getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false
},

"idempotencyToken" : false,
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

```java
public static class ElasticsearchVersionString implements com.amazonaws.util.io.StringInputStream {

    public static String elasticsearchVersion(String elasticsearchVersion) {
        return ELASTICSEARCH_VERSION_STRING.newBuilder().append(elasticsearchVersion).build();
    }
```
"documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@param elasticsearchVersion Version of Elasticsearch for which list of supported elasticsearch instance types are needed.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@return Version of Elasticsearch for which list of supported elasticsearch instance types are needed.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"sensitive" : false,
"setterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
"setterModel" : {
"returnType" : "String",
"documentation" : null
},
"isPattern": false,
"isRequired": false,
"isType": false,
"location": "optional",
"marshallLocationName": "ElasticsearchVersion",
"marshallLocation": "optional",
"message": "ElasticsearchVersion is optional",
"minItems": 0,
"minProperties": 0,
"minSize": 0,
"modelType": "optional",
"multipleOf": 0,
"maxLength": 0,
"maxItems": 0,
"maxProperties": 0,
"maxSize": 0,
"pattern": null,
"prefixItems": false,
"required": false,
"uniqueItems": false,
"x-modelOptions": null,
"x-quarter": false,
"xml": false,
"xmlName": null,
"xmlNamespace": null,
"xmlSchemaLocation": null,
"xmlSpace": "default"}
are needed. 

```xml
@param elasticsearchVersion Version of Elasticsearch for which list of supported elasticsearch instance types are needed.

"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "elasticsearchVersion",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "elasticsearchVersion",
   "variableType" : "String",
   "documentation" : "Version of Elasticsearch for which list of supported elasticsearch instance types are needed.",
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
```

"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.

This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}\n
@see #domainName(String)"

"deprecated" : false,
"documentation" : "DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.

@end tag
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "DomainName represents the name of the Domain that we are trying to
modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. `<p>@param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.\n@returns Returns a reference to this object so that method calls can be chained together.`.

"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.\n@returns DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain."
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "domainName",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "domainName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.\n@returns DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain."
"setterMethodName" : "setDomainName",
"setterModel" : {
DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>.
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults",
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>unThis is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}.unWhen the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #maxResults(Integer)}.param maxResults a consumer that will call methods on {@link Integer.Builder}return Returns a reference to this object so that method calls can be chained together.see #maxResults(Integer)",
  "deprecated" : false,
  "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "maxResults",
  "fluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>un@maxResults Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored:return Returns a reference to this object so that method calls can be chained together.".,
  "fluentSetterMethodName" : "maxResults",
  "getterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be
greater than 30 else it wont be honored. $\langle p \rangle \n@\text{return Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored.}$.

"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "maxResults",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "maxResults",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"sensitive" : false,
"setterDocumentation" : 
  "$\langle p \rangle \n@\text{param maxResults Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored.}$

"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"}
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it won't be honored. </p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to
{ @link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #nextToken(String)",
"deprecated" : false,
"documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>
@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>
@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "nextToken",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "nextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination. </p>\n@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination. </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} ]
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "ElasticsearchVersion" ]}
"shapeName" : "ListElasticsearchInstanceTypesRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
"variableDeclarationType" : "ListElasticsearchInstanceTypesRequest",
"variableName" : "listElasticsearchInstanceTypesRequest",
"variableType" : "ListElasticsearchInstanceTypesRequest",
"documentation" : null,
"simpleType" : "ListElasticsearchInstanceTypesRequest",
"variableSetterType" : "ListElasticsearchInstanceTypesRequest"
},
"wrapper" : false,
"ListElasticsearchInstanceTypesResponse" : {
"c2jName" : "ListElasticsearchInstanceTypesResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "Container for the parameters returned by <code>\n<a>ListElasticsearchInstanceTypes</a>\n</code> operation. \n</p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
"beanStyleGetterMethodName" : "getElasticsearchInstanceTypesAsStrings",
"beanStyleSetterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"c2jName" : "ElasticsearchInstanceTypes",
"c2jShape" : "ElasticsearchInstanceTypeList",
"defaultConsumerFluentSetterDocumentation" : "List of instance types supported by Amazon Elasticsearch service for given <code>\n<a>ElasticsearchVersion</a>\n</code> \nThis is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()} \nWhen the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link ListInstanceTypesAsStrings(List<String>)\n@param\nListInstanceTypesAsStrings a consumer that will
call methods on {@link List<String>.Builder}\n@return Returns a reference to this object so that method calls can
be chained together.\n@see ElasticsearchInstanceTypesWithStrings(List<String>)"
    "deprecated" : false,
    "documentation" : "&lt;p&gt; List of instance types supported by Amazon Elasticsearch service for given &lt;code&gt;&lt;a&gt;ElasticsearchVersion&lt;/a&gt; &lt;/code&gt; &lt;/p&gt;",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "elasticsearchInstanceTypes",
    "fluentEnumSetterMethodName" : "elasticsearchInstanceTypes",
    "fluentGetterMethodName" : "elasticsearchInstanceTypesAsStrings",
    "fluentSetterDocumentation" : "&lt;p&gt; List of instance types supported by Amazon Elasticsearch service for given &lt;code&gt;&lt;a&gt;ElasticsearchVersion&lt;/a&gt; &lt;/code&gt; &lt;/p&gt;",
    "fluentSetterMethodName" : "elasticsearchInstanceTypesWithStrings",
    "getterDocumentation" : "&lt;p&gt; List of instance types supported by Amazon Elasticsearch service for given &lt;code&gt;&lt;a&gt;ElasticsearchVersion&lt;/a&gt; &lt;/code&gt; &lt;/p&gt;\nAttempts to modify the collection returned by this
method will result in an UnsupportedOperationException.\n\n@return List of instance types supported by Amazon Elasticsearch service for given &lt;code&gt;&lt;a&gt;ElasticsearchVersion&lt;/a&gt; &lt;/code&gt; "
    "getterModel" : {
        "returnType" : "java.util.List<String>",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "ElasticsearchInstanceTypes",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "ElasticsearchInstanceTypes",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : true,
    "listModel" : {
        "implType" : "java.util.ArrayList",
        "interfaceType" : "java.util.List",
        "implementationType" : "java.util.ArrayList",
        "interfaceTypeOriginal" : "java.util.List",
        "implementationTypeOriginal" : "java.util.ArrayList",
        "getterType" : "java.util.List<String>",
        "setterType" : "org.apache.accumulo.core.data.type.StringType",
        "getterTypeOriginal" : "java.util.List<String>",
        "setterTypeOriginal" : "org.apache.accumulo.core.data.type.StringType"
    },
    "providerModel" : {
        "getterType" : "java.util.List<String>",
        "getterTypeOriginal" : "java.util.List<String>",
        "setterType" : "org.apache.accumulo.core.data.type.StringType",
        "setterTypeOriginal" : "org.apache.accumulo.core.data.type.StringType"
    },
    "requestModel" : {
        "getterType" : "java.util.List<String>",
        "getterTypeOriginal" : "java.util.List<String>",
        "setterType" : "org.apache.accumulo.core.data.type.StringType",
        "setterTypeOriginal" : "org.apache.accumulo.core.data.type.StringType"
    },
    "responseModel" : {
        "getterType" : "java.util.List<String>",
        "getterTypeOriginal" : "java.util.List<String>",
        "setterType" : "org.apache.accumulo.core.data.type.StringType",
        "setterTypeOriginal" : "org.apache.accumulo.core.data.type.StringType"
    },
    "enumerationType" : {
        "getterType" : "java.util.List<String>",
        "getterTypeOriginal" : "java.util.List<String>",
        "setterType" : "org.apache.accumulo.core.data.type.StringType",
        "setterTypeOriginal" : "org.apache.accumulo.core.data.type.StringType"
    },
    "enumerationTypeCopy" : {
        "getterType" : "java.util.List<String>",
        "getterTypeOriginal" : "java.util.List<String>",
        "setterType" : "org.apache.accumulo.core.data.type.StringType",
        "setterTypeOriginal" : "org.apache.accumulo.core.data.type.StringType"
    }}
"listMemberModel" : {
    "beanStyleGetterMethodName" : "getMemberAsString",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ESPartitionInstanceType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #memberAsString(String)}.\n@param member a consumer that will call methods on { @link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : "ESPartitionInstanceType",
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "member",
    "fluentEnumSetterMethodName" : "member",
    "fluentGetterMethodName" : "memberAsString",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n@param member The new value for the Member property for this object.\n@see ESPartitionInstanceType\n@return Returns a reference to this object so that method calls can be chained together.\n@see ESPartitionInstanceType",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.\nIf the service returns an enum value that is not available in the current SDK version, { @link #member} will return { @link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link #memberAsString}.\n@return The value of the Member property for this object.\n@see ESPartitionInstanceType",
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "member",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "member",
    },
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"Sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.
@see ESPartitionInstanceType",
"setterMethodName" : "setMember",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "member",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "member",
    "variableType" : "String",
    "documentation" : "",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"}


"name" : "ElasticsearchInstanceTypes",
"sensitive" : false,
"setterDocumentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given
<code><a>ElasticsearchVersion</a></code></p>
@param elasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given
<code><a>ElasticsearchVersion</a></code>"

"setterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"setterModel" : {

"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code><a>ElasticsearchVersion</a></code></p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "<p>In case if there are more results available NextToken
would be present, make further request to the same API with received NextToken to paginate remaining results.
</p>"

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one
manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()}
is called immediately and its result is passed to {@link #nextToken(String)}, a consumer that
will call methods on {@link String.Builder}.

@see #nextToken(String)
"deprecated" : false,
"documentation" : "<p>In case if there are more results available NextToken would be present, make further
request to the same API with received NextToken to paginate remaining results. </p>"",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterMethodName" : "setNextToken",
"getterDocumentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given
<code><a>ElasticsearchVersion</a></code></p>
@param elasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given
<code><a>ElasticsearchVersion</a></code>"

"getterMethodName" : "getElasticsearchInstanceTypesWithStrings",
"getterModel" : {

"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code><a>ElasticsearchVersion</a></code></p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},

"getterModel" : {

"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code><a>ElasticsearchVersion</a></code></p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
}}
"fluentSetterDocumentation" : "In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results."

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "nextToken",

"getterDocumentation" : "In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results."

@returns In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "NextToken",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "NextToken",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "NextToken",

"setterDocumentation" : "In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results."

@returns In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.

"setterMethodName" : "setNextToken",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken"
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
}

"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
}

"xmlNameSpaceUri" : null

"membersAsMap" : {
  "ElasticsearchInstanceTypes" : {
    "beanStyleGetterMethodName" : "getElasticsearchInstanceTypesAsStrings",
    "beanStyleSetterMethodName" : "setElasticsearchInstanceTypesWithStrings",
    "c2jName" : "ElasticsearchInstanceTypes",
    "c2jShape" : "ElasticsearchInstanceTypeList",
    "defaultConsumerFluentSetterDocumentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code>&lt;a&gt;ElasticsearchVersion&lt;/a&gt;</code> </p>
This is a convenience that creates an instance of the { @link List&lt;String&gt;.Builder} avoiding the need to create one manually via { @link List&lt;String&gt;.Builder#build()}. When the { @link Consumer} completes, { @link List&lt;String&gt;.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchInstanceTypesAsStrings(List&lt;String&gt;)}.
@ see #elasticsearchInstanceTypesWithStrings(List&lt;String&gt;)",
    "deprecated" : false,
    "documentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code>&lt;a&gt;ElasticsearchVersion&lt;/a&gt;</code> </p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "elasticsearchInstanceTypes",
    "fluentEnumSetterMethodName" : "elasticsearchInstanceTypes",
    "fluentGetterMethodName" : "elasticsearchInstanceTypesAsStrings",
    "fluentSetterDocumentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code>&lt;a&gt;ElasticsearchVersion&lt;/a&gt;</code> </p>",
    "fluentSetterMethodName" : "elasticsearchInstanceTypesWithStrings",
    "getterDocumentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code>&lt;a&gt;ElasticsearchVersion&lt;/a&gt;</code> </p>",
    "implementationType" : "Object",
    "simple" : true,
    "simpleType" : "List&lt;String&gt;",
    "variableDeclarationType" : "List&lt;String&gt;",
    "variableName" : "elasticsearchInstanceTypes",
    "variableType" : "List&lt;String&gt;",
    "variableSetterType" : "String"
  }
}
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return List of instance types supported by Amazon Elasticsearch service for given ElasticsearchVersion.
"fluentEnumGetterMethodName" : "member",
"fluentEnumSetterMethodName" : "member",
"fluentGetterMethodName" : "memberAsString",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.

@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.

@see ESPartitionInstanceType",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

<p>If the service returns an enum value that is not available in the current SDK version, [@link #member] will return [@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #memberAsString].</p>

@return The value of the Member property for this object.
@see ESPartitionInstanceType",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.

@see ESPartitionInstanceType",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member"}
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",

"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ElasticsearchInstanceTypes",
"sensitive" : false,
"setterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given
<code> <a>ElasticsearchVersion</a> </code> </p>
@param elasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>",
"setterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"setterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
"simple" : false,
"timestampFormat" : null,
"variableName" : "elasticsearchInstanceTypes",
"variableType" : "java.util.List<String>",
"documentation" : "List of instance types supported by Amazon Elasticsearch service for given ElasticsearchVersion.

"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"NextToken" : {
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder]. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [nextToken(String)] a consumer that will call methods on [String.Builder] and return a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.

@see #nextToken(String)
@returns Returns a reference to this object so that method calls can be chained together.

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"marshallLocationName" : "NextToken",
"marshallType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
@param nextToken
In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getElasticsearchInstanceTypesAsStrings",
  "beanStyleSetterMethodName" : "setElasticsearchInstanceTypesWithStrings",
  "c2jName" : "ElasticsearchInstanceTypes",
  "c2jShape" : "ElasticsearchInstanceTypeList",
  "defaultConsumerFluentSetterDocumentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
  This is a convenience that creates an instance of the { @link List&lt;String&gt;}.Builder avoiding the need to create one manually via { @link List&lt;String&gt;#builder()}. When the { @link Consumer} completes, { @link List&lt;String&gt;}.Builder#build() is called immediately and its result is passed to { @link ElasticsearchInstanceTypesAsStrings(List&lt;String&gt;)}. @param ElasticsearchInstanceTypes a consumer that will call methods on { @link List&lt;String&gt;}.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #elasticsearchInstanceTypesWithStrings(List&lt;String&gt;)",
  "deprecated" : false,
  "documentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "elasticsearchInstanceTypes",
  "fluentEnumSetterMethodName" : "elasticsearchInstanceTypes",
  "fluentGetterMethodName" : "elasticsearchInstanceTypesAsStrings",
  "fluentSetterDocumentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
  @param elasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>
  @return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "elasticsearchInstanceTypesWithStrings",
  "getterDocumentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
  Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
  @return List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>",
  "getterModel" : {
    "returnType" : "java.util.List&lt;String&gt;",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
  }
}
"marshallLocationName" : "ElasticsearchInstanceTypes",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchInstanceTypes",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMemberAsString",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ESPartitionInstanceType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}.\n\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #memberAsString(String)}\n\n@see #member(\nString).\n\n@deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : "ESPartitionInstanceType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "member",
  "fluentEnumSetterMethodName" : "member",
  "fluentGetterMethodName" : "memberAsString",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}.\n\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #memberAsString(String)}\n\n@see #member(\nString).\n\n@deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : "ESPartitionInstanceType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "member",
  "fluentEnumSetterMethodName" : "member",
  "fluentGetterMethodName" : "memberAsString",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}.\n\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #memberAsString(String)}\n\n@see #member(\nString).\n\n@deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : "ESPartitionInstanceType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "member",
  "fluentEnumSetterMethodName" : "member",
  "fluentGetterMethodName" : "memberAsString",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}.\n\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #memberAsString(String)}\n\n@see #member(\nString).\n\n@deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : "ESPartitionInstanceType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "member",
  "fluentEnumSetterMethodName" : "member",
  "fluentGetterMethodName" : "memberAsString",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}.\n\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #memberAsString(String)}\n\n@see #member(\nString).\n\n@deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : "ESPartitionInstanceType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "member",
  "fluentEnumSetterMethodName" : "member",
  "fluentGetterMethodName" : "memberAsString",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}.\n\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #memberAsString(String)}\n\n@see #member(\nString).\n\n@deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : "ESPartitionInstanceType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "member",
  "fluentEnumSetterMethodName" : "member",
  "fluentGetterMethodName" : "memberAsString",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}.\n\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #memberAsString(String)}\n\n@see #member(\nString).\n\n@deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : "ESPartitionInstanceType!\n\nIf the service returns an enum value that is not available in the current SDK version, \n{@link #member} will return \n{@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from \n{@link #memberAsString().\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see ESPartitionInstanceType",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n\nIf the service returns an enum value that is not available in the current SDK version, \n{@link #member} will return \n{@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from \n{@link #memberAsString().\n\n@see ESPartitionInstanceType",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ElasticsearchInstanceTypes",
"sensitive" : false,
"setterDocumentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code><a>ElasticsearchVersion</a></code></p>
@param elasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given <code><a>ElasticsearchVersion</a></code>",
"setterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "elasticsearchInstanceTypes",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "elasticsearchInstanceTypes",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given <code><a>ElasticsearchVersion</a></code></p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.</p>
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link#builder()].

When the [link Consumer] completes, [link#build()]

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is called immediately and its result is passed to {@link #nextToken(String)}.@n@param nextToken a consumer that will call methods on {@link String.Builder}@n@returns Returns a reference to this object so that method calls can be chained together.@n@see #nextToken(String)\n
"deprecated" : false,
"documentation" : "\nIn case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. \n\n\n\nEnds here.\n
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "\nIn case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.
\n\n\n\nEnds here.\n
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "\nIn case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. \n\n\n\nEnds here.\n
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshalLocation" : "PAYLOAD",
  "marshalLocationName" : "NextToken",
  "queryString" : false,
  "statusCode" : false,
  "unmarshalLocationName" : "NextToken",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NextToken",
"sensitive": false,
"setterDocumentation": "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
@param nextToken
In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.",
"setterMethodName": "setNextToken",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String",
  "documentation": "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
}
,"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "ListElasticsearchInstanceTypesResponse",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "ListElasticsearchInstanceTypesResponse",
  "variableName": "listElasticsearchInstanceTypesResponse",
  "variableType": "ListElasticsearchInstanceTypesResponse",
  "documentation": null,
  "simpleType": "ListElasticsearchInstanceTypesResponse",
  "variableSetterType": "ListElasticsearchInstanceTypesResponse"
}
"wrapper": false
},
"ListElasticsearchVersionsRequest": {
  "c2jName": "ListElasticsearchVersionsRequest",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "Container for the parameters to the <code>ListElasticsearchVersions</code> operation. 
  Use <code>MaxResults</code> to control the maximum number of results to retrieve in a single call.
  Use <code>NextToken</code> in response to retrieve more results. If the received response does not contain a NextToken, then there are no more results to retrieve.
  
  "endpointDiscovery": null,
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": {
    "action": "ListElasticsearchVersions",
    "locationName": null,
    "requestUri": "/2015-01-01/es/versions",
    "target": null,
    "verb": "GET",
    "xmlNameSpaceUri": null
  },
  "members": [
    "beanStyleGetterMethodName": "getMaxResults",
    "beanStyleSetterMethodName": "setMaxResults",
    "c2jName": "MaxResults",
    "c2jShape": "MaxResults",
    "defaultConsumerFluentSetterDocumentation": "Set this value to limit the number of results returned. Value provided must be greater than 10 else it won't be honored."
  ]
}
"documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
@return Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.
",
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshalLocation" : "QUERY_PARAM",
  "marshalLocationName" : "maxResults",
  "queryString" : true,
  "statusCode" : false,
  "unmarshalLocationName" : "maxResults",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"sensitive" : false,
"setterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be
greater than 10 else it won't be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it won't be honored.",

"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it won't be honored. </p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #nextToken(String)].\n\n@param nextToken a consumer that will call methods on [@link String.Builder]\n\n@see #nextToken(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.\n\nThe new value for the NextToken property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #nextToken(String)",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "Returns the value of the NextToken property for this object.\n\n@return The value of
the NextToken property for this object.

"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "queryString",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "nextToken",
    "queryString" : true,
    "statusCode" : false,
    "unmarshallLocationName" : "nextToken",
    "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "NextToken",

"sensitive" : false,

"setterDocumentation" : "Sets the value of the NextToken property for this object.

@param nextToken The new value for the NextToken property for this object."

"setterMethodName" : "setNextToken",

"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "nextToken",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "nextToken",
    "variableType" : "String"}
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
]
],
"membersAsMap" : {
"MaxResults" : {
"beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults",
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}.

When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #maxResults(Integer)}.<p>@param maxResults a consumer that will call methods on { @link Integer.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #maxResults(Integer)",
"deprecated" : false,
"documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
@return Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "queryString",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"sensitive" : false,
"setterDocumentation" : "&lt;p&gt; Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. &lt;/p&gt;&lt;param name=maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.",
"setterMethodName" : "setMaxResults",
"setterModel" : {

"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : "&lt;p&gt; Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. &lt;/p&gt;",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"NextToken" : {

"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken"
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object. This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #nextToken(String)].

NextToken a consumer that will call methods on [link String.Builder] return Returns a reference to this object so that method calls can be chained together.

@see #nextToken(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.

@param nextToken The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together.

@see #nextToken(String)",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "Returns the value of the NextToken property for this object.

@return The value of the NextToken property for this object.

getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the NextToken property for this object. \n@param nextToken The new value for the NextToken property for this object."
, "setterMethodName" : "setNextToken",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "nextToken",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "nextToken",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [
 "beanStyleGetterMethodName" : "getMaxResults",
 "beanStyleSetterMethodName" : "setMaxResults",
 "c2jName" : "MaxResults",
 "c2jShape" : "MaxResults",
 "defaultConsumerFluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, it is called immediately and its result is passed to {@link #maxResults(Integer)}.
@return Returns a reference to this object so that method calls can be chained together."
, "deprecated" : false,
 "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>" },
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.",
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "maxResults",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "maxResults",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"sensitive" : false,
"setterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.",
"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer"}
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
}
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it won't be honored. </p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
{
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object. This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #nextToken(String)].
@param nextToken a consumer that will call methods on [@link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object. The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)",
"getterDocumentation" : "Returns the value of the NextToken property for this object."
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": "querystring",
"marshallLocation": "QUERY_PARAM",
"marshallLocationName": "nextToken",
"queryString": true,
"statusCode": false,
"unmarshallLocationName": "nextToken",
"uri": false,
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NextToken",
"sensitive": false,
"setterDocumentation": "Sets the value of the NextToken property for this object.

@param nextToken The new value for the NextToken property for this object.
",
"setterMethodName": "setNextToken",
"setterModel": {
 "variableDeclarationType": "String",
 "variableName": "nextToken",
 "variableType": "String",
 "documentation": null,
 "simpleType": "String",
 "variableSetterType": "String"
 },
"simple": true,
"timestampFormat": null,
"variable": {
 "variableDeclarationType": "String",
 "variableName": "nextToken",
 "variableType": "String",
 "documentation": "",
 "simpleType": "String",
 "variableSetterType": "String"
 },
"xmlNameSpaceUri": null
] },
"requestSignerAware": false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ListElasticsearchVersionsRequest",
"simpleMethod" : true,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "ListElasticsearchVersionsRequest",
  "variableName" : "listElasticsearchVersionsRequest",
  "variableType" : "ListElasticsearchVersionsRequest",
  "documentation" : null,
  "simpleType" : "ListElasticsearchVersionsRequest",
  "variableSetterType" : "ListElasticsearchVersionsRequest"
},
"wrapper" : false
},
"ListElasticsearchVersionsResponse" : {
  "c2jName" : "ListElasticsearchVersionsResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Container for the parameters for response received from <code><a>ListElasticsearchVersions</a></code> operation."
},
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshaller" : null,
"members" : [
  "beanStyleGetterMethodName" : "getElasticsearchVersions",
  "beanStyleSetterMethodName" : "setElasticsearchVersions",
  "c2jName" : "ElasticsearchVersions",
  "c2jShape" : "ElasticsearchVersionList",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object."
]This is a convenience that creates an instance of the [List<String>.Builder] avoiding the need to create one manually via [List<String>#builder()]. When the [Consumer] completes, [List<String>.Builder#build()] is called immediately and its result is passed to [List<String>].
#elasticsearchVersions(List<String>)}.
@param elasticsearchVersions a consumer that will call methods on
{@link List<String>.Builder}
@return Returns a reference to this object so that method calls can be chained
together.
@see #elasticsearchVersions(List<String>)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersions",
"fluentSetterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object.

@param elasticsearchVersions The new value for the ElasticsearchVersions property for this object.
@return Returns a reference to this object so that method calls can be chained together."
,"fluentSetterMethodName" : "elasticsearchVersions",
"getterDocumentation" : "Returns the value of the ElasticsearchVersions property for this object.
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException."
,"getterModel" : {
 "returnType" : "java.util.List<String>",
 "documentation" : null
 },
"http" : {
 "additional MarshallingPath" : null,
 "additional UnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "ElasticsearchVersions",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "ElasticsearchVersions",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
 "implType" : "java.util.ArrayList",
 "interfaceType" : "java.util.List",
 "listMemberModel" : {
 "beanStyle GetterMethodName" : "getMember",
..."}
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #member(String)}. @param member a consumer that will call methods on { @link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
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"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #member(String)}.\n
@see #member(String)",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@see #member(String)\n\nwhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #member(String)}.\n@param member a consumer that will call methods on { @link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
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  "documentation" : null
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  "greedy" : false,
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  "isStreaming" : false,
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  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
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"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

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  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
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  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
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"memberLocationName" : null,
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"map" : false,
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"memberAdditionalUnmarshallingPath" : null,
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"templateType" : "java.util.List<String>"
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"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ElasticsearchVersions",
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"setterModel" : {

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"variableType" : "java.util.List<String>",
"documentation" : 
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"variableSetterType" : "java.util.Collection<String>"
},
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},
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build\} is called immediately and its result is passed to \{@link #nextToken(String)\}.\n@see #nextToken(String)"
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"fluentEnumSetterMethodName" : null,
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"fluentSetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.\n\n@param nextToken a consumer that will call methods on \{@link String.Builder\}\n@see #nextToken(String)"
"getterDocumentation" : "Returns the value of the NextToken property for this object.\n\n@see #nextToken(String)"
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"documentation" : null
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    "statusCode": false,
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    "variableSetterType": "String"
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    "variableSetterType": "String"
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    "c2jShape" : "ElasticsearchVersionList",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object. This is a convenience that creates an instance of the {\link List<String>.Builder} avoiding the need to create one manually via {\link List<String>#builder()}. When the {\link Consumer} completes, {\link List<String>.Builder#build()} is called immediately and its result is passed to {\link ElasticsearchVersionList#elasticsearchVersions(List<String>)}.\n@see ElasticsearchVersionList#elasticsearchVersions(List<String>)
@return Returns a reference to this object so that method calls can be chained together.\n@see ElasticsearchVersionList#elasticsearchVersions(List<String>)"
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    "fluentSetterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object.\n@see ElasticsearchVersionList#elasticsearchVersions\n@return Returns a reference to this object so that method calls can be chained together.\n@see ElasticsearchVersionList#elasticsearchVersions"
,  
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      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
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      "marshallLocationName" : "ElasticsearchVersions",
      "queryString" : null,
      "statusCode" : false,
      "unmarshallLocationName" : "ElasticsearchVersions"
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} }
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    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ElasticsearchVersionString",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
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one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)]\n@var member a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
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    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@var member The new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
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    "isPayload" : false,
    "isStreaming" : false,
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  }
}


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  "variableSetterType" : "String"
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  "variableType" : "String",
  "documentation" : "",
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  "variableSetterType" : "String"
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"templateType": "java.util.List<String>",
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"variableName": "elasticsearchVersions",
"variableType": "java.util.List<String>",
"documentation": null,
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
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"xmlNameSpaceUri": null
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"beanStyleSetterMethodName": "setNextToken",
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"c2jShape": "NextToken",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the NextToken property for this object.\n\nThis is a convenience that creates an instance of the [\link String.Builder] avoiding the need to create one manually via [\link String#builder()].\n\nWhen the [\link Consumer] completes, [\link String.Builder#build()] is called immediately and its result is passed to [\link #nextToken(String)].\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #nextToken(String)",
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that method calls can be chained together.",
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"isStreaming" : false,
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    "c2jShape" : "ElasticsearchVersionString",
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@see #member(String)"
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  "documentation" : "",
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  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@see { @link String.Builder#build() }">

@returns Returns a reference to this object so that method calls can be chained together.

@returns Returns a reference to this object so that method calls can be chained together.

@returns Returns the value of the Member property for this object.

@returns The value of the Member property for this object.

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"isPayload" : false,
"isStreaming" : false,
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"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
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"jsonValue" : false,
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"setterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object. \n\n@param elasticsearchVersions The new value for the ElasticsearchVersions property for this object."
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  "variableName" : "elasticsearchVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>
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"timestampFormat" : null,
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  "variableName" : "elasticsearchVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : "",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>
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"xmlNameSpaceUri" : null
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"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object. \nThis is a convenience that creates an instance of the [String.Builder] avoiding the need to create
one manually via \{@link String#builder()\}. 

When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #nextToken(String)\}. 

@para\n
nextToken a consumer that will call methods on \{@link String.Builder\} \n
@para\n
\n
\@return Returns a reference to this object so that method calls can be chained together. \n
@see #nextToken(String)\n
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"fluentEnumSetterMethodName" : null,
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\n
The new value for the NextToken property for this object. \n
\n
\@return Returns a reference to this object so that method calls can be chained together. \n
"fluentSetterMethodName" : "nextToken",
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\n
\@return The value of the NextToken property for this object. \n
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  "documentation" : null
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  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
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  "marshallLocationName" : "NextToken",
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  "statusCode" : false,
  "unmarshallLocationName" : "NextToken",
  "uri" : false
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"isBinary" : false,
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"list" : false,
"listModel" : null,
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"mapModel" : null,
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  "variableType" : "String",
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  "variableType" : "ListElasticsearchVersionsResponse",
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  "variableSetterType" : "ListElasticsearchVersionsResponse"
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  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Container for the parameters to the <code>ListTags</code> operation. Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view are attached.</p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusMember" : false,
"marshaller" : {
  "action" : "ListTags",
  "locationName" : null,
  "requestUri" : "/2015-01-01/tags/",
  "target" : null,
  "verb" : "GET",
  "xmlNameSpaceUri" : null
},
"members" : [
  "beanStyleGetterMethodName" : "getArn",
  "beanStyleSetterMethodName" : "setArn",
  "c2jName" : "ARN",
  "c2jShape" : "ARN",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>"
];

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #arn(String)}. Returns a reference to this object so that method calls can be chained together. See #arn(String)
,
"deprecated" : false,
"documentation" : "<p>Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>
@param arn Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "arn",
"getterDocumentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>
@return Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "queryString",
  "marshallLocation" : "QUERY_PARAMETER",
  "marshallLocationName" : "arn",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "arn",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"sensitive" : false,
"setterDocumentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>
@param arn Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.",
"setterMethodName" : "setArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String"}
"variableSetterType" : "String",
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain to which the tags are attached that you want to view.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
  "ARN" : {
    "beanStyleGetterMethodName" : "getArn",
    "beanStyleSetterMethodName" : "setArn",
    "c2jName" : "ARN",
    "c2jShape" : "ARN",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain to which the tags are attached that you want to view.</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #arn(String)}. Returns a reference to this object so that method calls can be chained together.<p>@see #arn(String)</p>",
    "deprecated" : false,
    "documentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain to which the tags are attached that you want to view.</p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "arn",
    "fluentSetterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain to which the tags are attached that you want to view.</p>
@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "arn",
    "getterDocumentation" : "<p> Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain to which the tags are attached that you want to view.</p>
@return Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain to which the tags are attached that you want to view.",
    "getModel" : {
      "returnType" : "String",
      "documentation" : null
    }
  }
}
"http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": "querystring",
    "marshallLocation": "QUERY_PARAM",
    "marshallLocationName": "arn",
    "queryString": true,
    "statusCode": false,
    "unmarshallLocationName": "arn",
    "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ARN",
"sensitive": false,
"setterDocumentation": "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p><p>@param arn Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>.
"setterMethodName": "setArn",
"setterModel": {
    "variableDeclarationType": "String",
    "variableName": "arn",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "String",
    "variableName": "arn",
    "variableType": "String",
    "documentation": "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p> ",
    "simpleType": "String"}
"variableSetterType" : "String",
},
"xmlnsNameSpaceUri" : null
}
},

"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getArn",
"beanStyleSetterMethodName" : "setArn",
"c2jName" : "ARN",
"c2jShape" : "ARN",
"defaultConsumerFluentSetterDocumentation" : "Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #arn(String)}.

@returns A reference to this object so that method calls can be chained together.
@see #arn(String)
",
"deprecated" : false,
"documentation" : "Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.

endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : "Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.

@returns A reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "arn",
"getterDocumentation" : "Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.

@returns A reference to this object so that method calls can be chained together.
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : null,
"marshallingLocation" : null,
"marshallingLocationName" : null,
"flatteningStrategy" : null,
"flatteningStrategyName" : null,
"additionalConsumers" : null,
"additionalProducers" : null,
"baseType" : "arn",
"baseModel" : null,
"defaultMarshallerInterface" : null,
"defaultResponseStrategy" : null,
"defaultResponseClass" : null,
"isEndpointDiscoveryId" : false,
"isEnumType" : false,
"isEventHeader" : false,
"isEventPayload" : false,
"isFluentEnumGetterMethodName" : null,
"isFluentEnumSetterMethodName" : null,
"isFluentGetterMethodName" : "arn",
"isFluentSetterMethodName" : "arn",
"isGetterDocumentation" : "Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.

@returns A reference to this object so that method calls can be chained together.
",
"isGetterModel" : {
"returnType" : "String",
"documentation" : null
},
"isHttp" : false,
"isMarshallingLocation" : false,
"isMarshallingLocationName" : false,
"isMarshallingStrategy" : false,
"isMarshallingStrategyName" : false,
"isNonStreamingMembers" : false,
"isNonStreamingMembersEmpty" : false,
"isMarshallingStrategyName" : null,
"isUnmarshallingStrategy" : false,
"isUnmarshallingStrategyName" : false,
"isUnmarshallingStrategyName" : null,
"isAdditionalMarshallingPath" : false,
"isAdditionalUnmarshallingPath" : false,
"isAdditionalConsumers" : false,
"isAdditionalProducers" : false,
"isAdditionalConsumersEmpty" : false,
"isAdditionalProducersEmpty" : false,
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"isAdditionalConsumersEmpty" : null,
"isAdditionalProducersEmpty" : null,
"isAdditionalConsumers" : null,
"isAdditionalProducers" : null,
"isAdditionalConsumersEmpty" : null,
"isAdditionalProducersEmpty" : null,
"marshallLocationName" : "arn",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "arn",
"uri" : false,
}
,"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"sensitive" : false,
"setterDocumentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.
</p>
@param arn Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.
",
"setterMethodName" : "setArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.
</p>
",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
,"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "ARN" ],
"shapeName" : "ListTagsRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {

"variableDeclarationType" : "ListTagsRequest",
"variableName" : "listTagsRequest",
"variableType" : "ListTagsRequest",
"documentation" : null,
"simpleType" : "ListTagsRequest",
"variableSetterType" : "ListTagsRequest"
},
"wrapper" : false
},
"ListTagsResponse" : {
"c2jName" : "ListTagsResponse",
"customization" : {
 "artificialResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "The result of a ListTags operation. Contains tags for all requested Elasticsearch domains.
",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
 "beanStyleGetterMethodName" : "getTagList",
 "beanStyleSetterMethodName" : "setTagList",
 "c2jName" : "TagList",
 "c2jShape" : "TagList",
 "defaultConsumerFluentSetterDocumentation" : "List of Tag for the requested Elasticsearch domain."
} ]
}

This is a convenience that creates an instance of the List<Tag>.Builder avoiding the need to create one manually via List<Tag>.Builder(). When the Consumer completes, List<Tag>.Builder#build() is called immediately and its result is passed to List<Tag>.Builder#tagList().

Returns a reference to this object so that method calls can be chained together.

@see #tagList(List<Tag>)

"deprecated" : false,
"documentation" : "List of Tag for the requested Elasticsearch domain.
",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagList",
"fluentSetterDocumentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain.

@n@param tagList List of <code>Tag</code> for the requested Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "tagList",
"getterDocumentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain.

@n@param tagList List of <code>Tag</code> for the requested Elasticsearch domain.

Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

@return List of <code>Tag</code> for the requested Elasticsearch domain.
",
"getterModel" : {
   "returnType" : "java.util.List<Tag>",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "TagList",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "TagList",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
   "implType" : "java.util.ArrayList",
   "interfaceType" : "java.util.List",
   "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "c2jShape" : "Tag",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object.

This is a convenience that creates an instance of the [@link Tag.Builder] avoiding the need to create one
manually via [@link Tag.Builder].

When the [@link Consumer] completes, [@link Tag.Builder#build()] is
called immediately and its result is passed to { @link #member(Tag)}

\n\n@see #member(Tag)
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.
\n\n@see #member member
\n\nThe new value for the Member property for this object.
\n\n@see #member member
\n\n@return Returns a reference to this object so that method calls can be chained together.
"",
"getterDocumentation" : "Returns the value of the Member property for this object.
\n\n@return The value of the Member property for this object.
",
"getterModel" : {
"returnType" : "Tag",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : null,
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : 
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "Tag",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "Tag",
"templateImplType" : "java.util.ArrayList<Tag>",
"templateType" : "java.util.List<Tag>
",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagList",
"sensitive" : false,
"setterDocumentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>

@param tagList List of <code>Tag</code> for the requested Elasticsearch domain.",
"setterMethodName" : "setTagList",
"setterModel" : {
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  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "documentation" : null,
  "simpleType" : "List<Tag>",
  "variableSetterType" : "java.util.Collection<Tag>"
additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TagList",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TagList",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "Tag",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the @link Tag.Builder avoiding the need to create one manually via @link Tag#builder().
When the @link Consumer completes, @link Tag.Builder#build() is called immediately and its result is passed to @link #member(Tag)
@see #member(Tag)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
The new value for the Member property for this object.
@see #member(Tag)",
  "getterModel" : {
    "getterDocumentation" : "Returns the value of the Member property for this object.
    The value of the Member property for this object.
    @return The value of the Member property for this object.
    "getterModel" : [}
@param member The new value for the Member property for this object.

"setterDocumentation" : "Sets the value of the Member property for this object."

"setterMethodName" : "setMember",
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  "variableName" : "member",
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  "documentation" : null,
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
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  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : "",
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"variableSetterType" : "Tag",
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"map" : false,
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"templateType" : "java.util.List<Tag>"
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"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagList",
"sensitive" : false,
"setterDocumentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain.</p>
@param tagList List of <code>Tag</code> for the requested Elasticsearch domain.",
"setterMethodName" : "setTagList",
"setterModel" : {
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  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "documentation" : null,
  "simpleType" : "List<Tag>",
  "variableSetterType" : "java.util.Collection<Tag>"
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"simple" : false,
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  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "documentation" : null,
  "simpleType" : "List<Tag>",
  "variableSetterType" : "java.util.Collection<Tag>"
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"xmlNameSpaceUri" : null
}
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"nonStreamingMembers" : [
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    "beanStyleGetterMethodName" : "getTagList",
    "beanStyleSetterMethodName" : "setTagList",
    "c2jName" : "TagList",
    "c2jShape" : "TagList",
    "javaImplementation" : "java.util.ArrayList<Tag>",
    "javaImplementationType" : "java.util.ArrayList<Tag>",
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    "map" : false,
    "mapModel" : null,
    "marshallingType" : "LIST",
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    "sensitive" : false,
    "setterDocumentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain.</p>
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      "variableName" : "tagList",
      "variableType" : "java.util.List<Tag>",
      "documentation" : null,
      "simpleType" : "List<Tag>",
      "variableSetterType" : "java.util.Collection<Tag>"
    },
    "simple" : false,
    "timestampFormat" : null,
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      "variableDeclarationType" : "java.util.List<Tag>",
      "variableName" : "tagList",
      "variableType" : "java.util.List<Tag>",
      "documentation" : null,
      "simpleType" : "List<Tag>",
      "variableSetterType" : "java.util.Collection<Tag>"
    },
    "xmlNameSpaceUri" : null
  }
]}
"defaultConsumerFluentSetterDocumentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain. 
This is a convenience that creates an instance of the {@link List<Tag>.Builder} avoiding the need to create one manually via {@link List<Tag>#builder()}. When the @link Consumer completes, @link List<Tag>.Builder#build() is called immediately and its result is passed to @link #tagList(List<Tag>).

@<param>tagList a consumer that will call methods on @link List<Tag>.Builder

@see #tagList(List<Tag>)",

"deprecated" : false,
"documentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain. </p>",
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"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagList",
"fluentSetterDocumentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain. </p>
@<param>tagList List of <code>Tag</code> for the requested Elasticsearch domain.

Returns a reference to this object so that method calls can be chained together.

@see #tagList(List<Tag>)",

"fluentSetterMethodName" : "tagList",
"getterDocumentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain. </p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return List of <code>Tag</code> for the requested Elasticsearch domain.

"getterModel" : {
"returnType" : "java.util.List<Tag>",
"documentation" : null
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"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TagList",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TagList",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"returnType" : "java.util.List<Tag>",
"documentation" : null
}
"implType": "java.util.ArrayList",
"interfaceType": "java.util.List",
"listMemberModel": {
  "beanStyleGetterMethodName": "getMember",
  "beanStyleSetterMethodName": "setMember",
  "c2jName": "member",
  "c2jShape": "Tag",
  "defaultValueFluentSetterDocumentation": "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [Tag.Builder] avoiding the need to create one manually via \n[Tag.Builder#builder()].\nWhen the [Consumer] completes, [Tag.Builder#build()] is called immediately and its result is passed to \n[member(Tag)].\n@param member a consumer that will call methods on [Tag.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(Tag)",
  "deprecated": false,
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  "endpointDiscoveryId": false,
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  "fluentGetterMethodName": "member",
  "fluentSetterDocumentation": "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName": "member",
  "getterDocumentation": "Returns the value of the Member property for this object.\n@return The value of the Member property for this object.",
  "getterModel": {
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    "documentation": null
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    "statusCode": false,
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  }
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"idempotencyToken": false,
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"jsonValue": false,
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"listModel": null,
"map": false,
"mapModel": null,
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"setterDocumentation": "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."

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  "simpleType": "Tag",
  "variableSetterType": "Tag"
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"simple": false,
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  "variableDeclarationType": "Tag",
  "variableName": "member",
  "variableType": "Tag",
  "documentation": "",
  "simpleType": "Tag",
  "variableSetterType": "Tag"
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"xmlNameSpaceUri": null

"memberLocationName": null,
"memberType": "Tag",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "Tag",
"templateImplType": "java.util.ArrayList<Tag>",
"templateType": "java.util.List<Tag>"
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"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "TagList",
"sensitive": false,
"setterDocumentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>\n@param tagList List of <code>Tag</code> for the requested Elasticsearch domain."
,"setterMethodName" : "setTagList",
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  "variableDeclarationType" : "java.util.List<Tag>",
  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "documentation" : null,
  "simpleType" : "List<Tag>",
  "variableSetterType" : "java.util.Collection<Tag>"
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"simple" : false,
"timestampFormat" : null,
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  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "documentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>",
  "simpleType" : "List<Tag>",
  "variableSetterType" : "java.util.Collection<Tag>"
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"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
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"variable" : {
  "variableDeclarationType" : "ListTagsResponse",
  "variableName" : "listTagsResponse",
  "variableType" : "ListTagsResponse",
  "documentation" : null,
  "simpleType" : "ListTagsResponse",
  "variableSetterType" : "ListTagsResponse"
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"LogPublishingOption" : {
  "c2jName" : "LogPublishingOption",
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    "artificialResultWrapper" : null,
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    "skipGeneratingModelClass" : false,
"skipGeneratingUnmarshallers": false,
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"deprecated": false,
"documentation": "Log Publishing option that is set for given domain. <br/>Attributes and their details: <ul>
<li>CloudWatchLogsLogGroupArn: ARN of the Cloudwatch log group to which log needs to be published.</li>
<li>Enabled: Whether the log publishing for given log type is enabled or not</li>
</ul>
endpointDiscovery": null,
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  "beanStyleSetterMethodName": "setCloudWatchLogsLogGroupArn",
  "c2jName": "CloudWatchLogsLogGroupArn",
  "c2jShape": "CloudWatchLogsLogGroupArn",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the CloudWatchLogsLogGroupArn property for this object. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.Builder(). When the @link Consumer completes, String.Builder#build() is called immediately and its result is passed to cloudWatchLogsLogGroupArn(String). @param cloudWatchLogsLogGroupArn a consumer that will call methods on String.Builder @return Returns a reference to this object so that method calls can be chained together.@see cloudWatchLogsLogGroupArn(String)",
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
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  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "cloudWatchLogsLogGroupArn",
  "fluentSetterDocumentation": "Sets the value of the CloudWatchLogsLogGroupArn property for this object. The new value for the CloudWatchLogsLogGroupArn property for this object. @return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName": "cloudWatchLogsLogGroupArn",
  "getterDocumentation": "Returns the value of the CloudWatchLogsLogGroupArn property for this object.
@return The value of the CloudWatchLogsLogGroupArn property for this object.",
  "getterModel": {
    "returnType": "String",
"documentation": null
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  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "CloudWatchLogsLogGroupArn",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "CloudWatchLogsLogGroupArn",
  "uri": false
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{idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "CloudWatchLogsLogGroupArn",
"simple": false,
"setterDocumentation": "Sets the value of the CloudWatchLogsLogGroupArn property
for this object.

@param cloudWatchLogsLogGroupArn The new value for the CloudWatchLogsLogGroupArn property
for this object."
,"setterMethodName": "setCloudWatchLogsLogGroupArn",
"setterModel": {
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  "variableName": "cloudWatchLogsLogGroupArn",
  "variableType": "String",
  "documentation": null,
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  "variableSetterType": "String"
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"timestampFormat": null,
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  "variableName": "cloudWatchLogsLogGroupArn",
  "variableType": "String",
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  "simpleType": "String"
"variableSetterType" : "String",
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"xmlNameSpaceUri" : null
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"beanStyleGetterMethodName" : "getEnabled",
"beanStyleSetterMethodName" : "setEnabled",
"c2jName" : "Enabled",
"c2jShape" : "Boolean",
"defaultValueSetterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not. </p>\nThis is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean.Builder#builder()}.\n\nWhen the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #enabled(Boolean)}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #enabled(Boolean)",
"deprecated" : false,
"documentation" : "<p> Specifies whether given log publishing option is enabled or not. </p>\nendpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "enabled",
"fluentSetterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not. </p>\n@param enabled Specifies whether given log publishing option is enabled or not.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #enabled(Boolean)",
"fluentSetterMethodName" : "enabled",
"getterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not. </p>\n@return Specifies whether given log publishing option is enabled or not.
"getterModel" : {
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"documentation" : null
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"http" : {
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"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Enabled",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Enabled",
"uri" : false
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"_sensitive" : false,
"setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
"variableDeclarationType" : "Boolean",
"variableName" : "enabled",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
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"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Boolean",
"variableName" : "enabled",
"variableType" : "Boolean",
"documentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>",
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
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"xmlNameSpaceUri" : null
},
"membersAsMap" : {
"CloudWatchLogsLogGroupArn" : {
"beanStyleGetterMethodName" : "getCloudWatchLogsLogGroupArn",
"beanStyleSetterMethodName" : "setCloudWatchLogsLogGroupArn",
"c2jName" : "CloudWatchLogsLogGroupArn",
"c2jShape" : "CloudWatchLogsLogGroupArn",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this object.

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()].

When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [CloudWatchLogsLogGroupArn(String)].

A new object is created and passed to the consumer, so method calls can be chained together.

@example CloudWatchLogsLogGroupArn(String)
"deprecated" : false,
"documentation" : "",
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"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cloudWatchLogsLogGroupArn",
"fluentSetterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this
object.

@param cloudWatchLogsLogGroupArn The new value for the CloudWatchLogsLogGroupArn property
for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "cloudWatchLogsLogGroupArn",
"getterDocumentation" : "Returns the value of the CloudWatchLogsLogGroupArn property for this
object.

@return The value of the CloudWatchLogsLogGroupArn property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
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"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CloudWatchLogsLogGroupArn",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CloudWatchLogsLogGroupArn",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CloudWatchLogsLogGroupArn",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this
object.

@param cloudWatchLogsLogGroupArn The new value for the CloudWatchLogsLogGroupArn property
for this object.

setterMethodName" : "setCloudWatchLogsLogGroupArn"
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</tr>
</thead>
<tbody>
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<tr>
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<td>&quot;Boolean&quot;</td>
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</table>
| defaultConsumerFluentSetterDocumentation | "<p> Specifies whether given log publishing option is enabled or not.

This is a convenience that creates an instance of the { @link Boolean.Builder } avoiding the need to create one manually via { @link Boolean.Builder#builder() }.
When the { @link Consumer } completes, { @link Boolean.Builder#build() } is called immediately and its result is passed to { @link Boolean#enabled(Boolean) }.

@see #enabled(Boolean)

@deprecated

@defaultConsumerFluentSetterDocumentation | <p> Specifies whether given log publishing option is enabled or not.

@endpointDiscoveryId | false |
| eventHeader             | false |
| eventPayload            | false |
| fluentEnumGetterMethodName | null |
| fluentEnumSetterMethodName | null |
| fluentGetterMethodName  | "enabled" |
| fluentSetterDocumentation | "<p> Specifies whether given log publishing option is enabled or not.

@see #enabled(Boolean)

@deprecated

@defaultConsumerFluentSetterDocumentation | <p> Specifies whether given log publishing option is enabled or not.

@getDocumentation | "<p> Specifies whether given log publishing option is enabled or not.

@endreturn

@return Returns a reference to this object so that method calls can be chained together.

@see #enabled(Boolean)

@deprecated

@defaultConsumerFluentSetterDocumentation | <p> Specifies whether given log publishing option is enabled or not.

@getterMethod | "enabled" |
| getterDocumentation | "<p> Specifies whether given log publishing option is enabled or not.

@endreturn

@return Specifies whether given log publishing option is enabled or not.

@endmodel | "Boolean" |}
"documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "Enabled",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "Enabled",
 "uri" : false
},
"idempotencyToken" : false,
 "isBinary" : false,
 "jsonValue" : false,
 "list" : false,
 "listModel" : null,
 "map" : false,
 "mapModel" : null,
 "marshallingType" : "BOOLEAN",
 "name" : "Enabled",
 "sensitive" : false,
 "setterDocumentation" : "\<p\> Specifies whether given log publishing option is enabled or not.\</p\>\n\@param enabled Specifies whether given log publishing option is enabled or not.\"",
 "setterMethodName" : "setEnabled",
 "setterModel" : {
 "variableDeclarationType" : "Boolean",
 "variableName" : "enabled",
 "variableType" : "Boolean",
 "documentation" : null,
 "simpleType" : "Boolean",
 "variableSetterType" : "Boolean"
 },
 "simple" : true,
 "timestampFormat" : null,
 "variable" : {
 "variableDeclarationType" : "Boolean",
 "variableName" : "enabled",
 "variableType" : "Boolean",
 "documentation" : "\<p\> Specifies whether given log publishing option is enabled or not.\</p\>\n\@param enabled Specifies whether given log publishing option is enabled or not.\"",
 "simpleType" : "Boolean",
 "variableSetterType" : "Boolean"
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getCloudWatchLogsLogGroupArn",
  "beanStyleSetterMethodName" : "setCloudWatchLogsLogGroupArn",
  "c2jName" : "CloudWatchLogsLogGroupArn",
  "c2jShape" : "CloudWatchLogsLogGroupArn",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #cloudWatchLogsLogGroupArn(String)}.
  @param cloudWatchLogsLogGroupArn a consumer that will call methods on { @link String.Builder}.
  @return Returns a reference to this object so that method calls can be chained together.
  @see #cloudWatchLogsLogGroupArn(String)",
  "deprecated" : false,
  "documentation" : ",
  "enumDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "cloudWatchLogsLogGroupArn",
  "fluentSetterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this object. The new value for the CloudWatchLogsLogGroupArn property for this object.
  @param cloudWatchLogsLogGroupArn The new value for the CloudWatchLogsLogGroupArn property for this object.
  @return Returns a reference to this object so that method calls can be chained together.
  ",
  "fluentSetterMethodName" : "cloudWatchLogsLogGroupArn",
  "getterDocumentation" : "Returns the value of the CloudWatchLogsLogGroupArn property for this object.
  @return The value of the CloudWatchLogsLogGroupArn property for this object.
  ",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "CloudWatchLogsLogGroupArn",
    "queryString" : false,
    "statusCode" : false,
    "xmlNameSpaceUri" : null
  }
}]}
"unmarshallLocationName" : "CloudWatchLogsLogGroupArn",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
" marshallingType" : "STRING",
"name" : "CloudWatchLogsLogGroupArn",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this object.

@param cloudWatchLogsLogGroupArn The new value for the CloudWatchLogsLogGroupArn property for this object.",
"setterMethodName" : "setCloudWatchLogsLogGroupArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "cloudWatchLogsLogGroupArn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
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  "variableName" : "cloudWatchLogsLogGroupArn",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getEnabled",
  "beanStyleSetterMethodName" : "setEnabled",
  "c2jName" : "Enabled",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not.

This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean#builder()}. When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #enabled(Boolean)}.

@see #enabled(Boolean)",
  "deprecated" : false,
"documentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>",
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"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "enabled",
"fluentSetterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "enabled",
"getterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@return Specifies whether given log publishing option is enabled or not.",
"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Enabled",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Enabled",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"sensitive" : false,
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@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
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@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
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  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "returnType" : "Boolean",
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "returnType" : "Boolean",
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "returnType" : "Boolean",
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "returnType" : "Boolean",
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "returnType" : "Boolean",
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "returnType" : "Boolean",
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "returnType" : "Boolean",
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "returnType" : "Boolean",
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "returnType" : "Boolean",
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.

  

```java
    @param enabled Specifies whether given log publishing option is enabled or not.
    @return Returns a reference to this object so that method calls can be chained together.
    
  
  ```

```java
  "getterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
  
  <p>Specifies whether given log publishing option is enabled or not.</p>
  
  ```

```java
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
  
  <p>Specifies whether given log publishing option is enabled or not.</p>
  
  ```

```java
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Enabled",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Enabled",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "BOOLEAN",
  "name" : "Enabled",
  "sensitive" : false,
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
  
  <p>Specifies whether given log publishing option is enabled or not.</p>
  
  ```

```java
  "getterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
  
  <p>Specifies whether given log publishing option is enabled or not.</p>
  
  ```

```java
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
  
  <p>Specifies whether given log publishing option is enabled or not.</p>
  
  ```

```java
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Enabled",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Enabled",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "BOOLEAN",
  "name" : "Enabled",
  "sensitive" : false,
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
  
  <p>Specifies whether given log publishing option is enabled or not.</p>
  
  ```

```java
  "getterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.</p>
  
  <p>Specifies whether given log publishing option is enabled or not.</p>
  
  ```

```java
  "setterDocumentation" : "<p>Specifies whether given log publishing option is enabled or not.

  ```
"variableDeclarationType" : "Boolean",
"variableName" : "enabled",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : "<p> Specifies whether given log publishing option is enabled or not.<p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
}
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "LogPublishingOption",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "logPublishingOption",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
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"wrapper" : false
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"LogPublishingOptionsStatus" : {
  "c2jName" : "LogPublishingOptionsStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthUnmarshaller" : 0
  },
  "deprecated" : false,
"documentation" : "The configured log publishing options for the domain and their current status.",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
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"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getOptionsAsStrings",
  "beanStyleSetterMethodName" : "setOptionsWithStrings",
  "c2jName" : "Options",
  "c2jShape" : "LogPublishingOptions",
  "defaultConsumerFluentSetterDocumentation" : "The log publishing options configured for the Elasticsearch domain. This is a convenience that creates an instance of the \{ @link Map<String,LogPublishingOption>.Builder \} avoiding the need to create one manually via \{ @link Map<String,LogPublishingOption>#builder() \}. When the \{ @link Consumer \} completes, \{ @link Map<String,LogPublishingOption>.Builder#build() \} is called immediately and its result is passed to \{ @link @param options a consumer that will call methods on \{ @link Map<String,LogPublishingOption>.Builder \} \@return Returns a reference to this object so that method calls can be chained together.\@see #optionsWithStrings(Map<String,LogPublishingOption>) \}.
  
  "deprecated" : false,
  "documentation" : "The log publishing options configured for the Elasticsearch domain.
  
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "options",
  "fluentEnumSetterMethodName" : "options",
  "fluentGetterMethod" : "optionsAsStrings",
  "fluentSetterDocumentation" : "The log publishing options configured for the Elasticsearch domain.
  
  "getterModel" : {
    "returnType" : "java.util.Map<String,LogPublishingOption>"
  },
  "http" : {

{"additionalMarshallingPath":null,
"additionalUnmarshallingPath":null,
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"greedy":false,
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"statusCode":false,
"unmarshallLocationName":"Options",
"uri":false
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"listModel":null,
"map":true,
"mapModel":{
  "implType":"java.util.HashMap",
  "interfaceType":"java.util.Map",
  "keyLocationName":"key",
  "keyModel":{
    "beanStyleGetterMethodName":"getKeyAsString",
    "beanStyleSetterMethodName":"setKey",
    "c2jName":"key",
    "c2jShape":"LogType",
    "defaultConsumerFluentSetterDocumentation":"Sets the value of the Key property for this object. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #keyAsString(String)\}.\n\n@param key a consumer that will call methods on \{@link String.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
  "deprecated":false,
  "documentation":"
  "endpointDiscoveryId":false,
  "enumType":"LogType",
  "eventHeader":false,
  "eventPayload":false,
  "fluentEnumGetterMethodName":"key",
  "fluentEnumSetterMethodName":"key",
  "fluentGetterMethodName":"keyAsString",
  "fluentSetterDocumentation":"Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n\n@see LogType\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see LogType"}
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.
If the service returns an enum value that is not available in the current SDK version, { @link #key } will return { @link LogType#UNKNOWN_TO_SDK_VERSION }. The raw value returned by the service is available from { @link #keyAsString }.

@return The value of the Key property for this object.
@see LogType",

"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},

"http" : {
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    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "key",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "key",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.
@param key The new value for the Key property for this object.
@see LogType",

"setterMethodName" : "setKey",
"setterModel" : {
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    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},

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  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.\n\nThis is a convenience that creates an instance of the {\@link LogPublishingOption.Builder} avoiding the need to create one manually via {\@link LogPublishingOption#builder()}.\n\nWhen the {\@link Consumer} completes, {\@link LogPublishingOption.Builder#build()} is called immediately and its result is passed to {\@link LogPublishingOption.Builder\#value(LogPublishingOption)}\n\n@see #value(LogPublishingOption)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.\n\nThe new value for the Value property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together."
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.\n\n@return The value of the Value property for this object."
  "getterModel" : {
    "returnType" : "LogPublishingOption",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
  },
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@\n\n@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
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  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : "",
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
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"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String, LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "Options"
"setterDocumentation": "The log publishing options configured for the Elasticsearch domain.",
"setterMethodName": "setOptionsWithStrings",
"setterModel": {
  "variableDeclarationType": "java.util.Map<String,LogPublishingOption>",
  "variableName": "options",
  "variableType": "java.util.Map<String,LogPublishingOption>",
  "documentation": null,
  "simpleType": "Map<String,LogPublishingOption>",
  "variableSetterType": "java.util.Map<String,LogPublishingOption>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.Map<String,LogPublishingOption>",
  "variableName": "options",
  "variableType": "java.util.Map<String,LogPublishingOption",
  "documentation": "The log publishing options configured for the Elasticsearch domain.",
  "simpleType": "Map<String,LogPublishingOption>",
  "variableSetterType": "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#build()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link #status(OptionStatus)}.

@deprecated
@see #status(OptionStatus)",
"documentation": "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. "pressed": false,
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "status",
"fluentSetterDocumentation": "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. "pressed": false,
publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "status",
"getterDocumentation" : "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

@return The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

"getterModel" : {
   "returnType" : "OptionStatus",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "Status",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "Status",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

@param status The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

"setterMethodName" : "setStatus",
"setterModel" : {
   "variableDeclarationType" : "OptionStatus",
   "variableName" : "status",
   "variableType" : "OptionStatus",
   "documentation" : null,
   "simpleType" : "OptionStatus"
"variableSetterType" : "OptionStatus",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See
<code>OptionStatus</code> for the status information that's included. </p>",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
}
},
"xmlNameSpaceUri" : null }
]
"membersAsMap" : {
  "Options" : {
    "beanStyleGetterMethodName" : "getOptionsAsStrings",
    "beanStyleSetterMethodName" : "setOptionsWithStrings",
    "c2jName" : "Options",
    "c2jShape" : "LogPublishingOptions",
    "defaultValueConsumerFluentSetterDocumentation" : "<p>The log publishing options configured for the
Elasticsearch domain. This is a convenience that creates an instance of the
{@link Map<String,LogPublishingOption>.Builder} avoiding the need to create one manually via
{@link Map<String,LogPublishingOption>.Builder#builder()}.
When the {@link Consumer} completes, {@link Consumer#accept(Map<String,LogPublishingOption>)}
is called immediately and its result is passed to
{@link Map<String,LogPublishingOption>.Builder#build()}.
@param options a consumer that will call methods on
the builder
@return Returns a reference to this object so that method calls can be chained together.
@see #optionsWithStrings(Map<String,LogPublishingOption>)",
    "deprecated" : false,
    "documentation" : "<p>The log publishing options configured for the
Elasticsearch domain. </p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "options",
    "fluentEnumSetterMethodName" : "options",
    "fluentGetterMethodName" : "optionsAsStrings",
    "fluentSetterDocumentation" : "<p>The log publishing options configured for the Elasticsearch
domain. 
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
</p>
@return The log publishing options configured for the Elasticsearch domain.
@returns 
<fluentSetterMethodDocumentation>
<parameters>
  <parameter>
    <name>options</name>
    <type>Map<String,LogPublishingOption></type>
    <description>The log publishing options configured for the Elasticsearch domain.</description>
  </parameter>
</parameters>
@returns

"getterModel" : {
  "returnType" : "java.util.Map<String,LogPublishingOption>",
"depressed" : false,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "options",
"fluentEnumSetterMethodName" : "options",
"fluentGetterMethodName" : "optionsAsStrings",
"fluentSetterDocumentation" : "<p>The log publishing options configured for the Elasticsearch
domain. 
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
</p>
@return The log publishing options configured for the Elasticsearch domain.
"getterMethodDocumentation" : "<p>The log publishing options configured for the Elasticsearch

domain. 
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
</p>
@return The log publishing options configured for the Elasticsearch domain.
"getterModel" : {
  "returnType" : "java.util.Map<String,LogPublishingOption>",
"depressed" : false,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "options",
"fluentEnumSetterMethodName" : "options",
"fluentGetterMethodName" : "optionsAsStrings",
"fluentSetterDocumentation" : "<p>The log publishing options configured for the Elasticsearch
domain. 
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
</p>
@return The log publishing options configured for the Elasticsearch domain.
"getterMethodDocumentation" : "<p>The log publishing options configured for the Elasticsearch

domain. 
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
</p>
@return The log publishing options configured for the Elasticsearch domain.
"getterModel" : {
  "returnType" : "java.util.Map<String,LogPublishingOption>",
"depressed" : false,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"documentation" : null,
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKeyAsString",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "LogType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #keyAsString(String)}\n\n@param key a consumer that will call methods on { @link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : "LogType",
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "key",
    "fluentEnumSetterMethodName" : "key",
    "fluentGetterMethodName" : "keyAsString",
    "implType" : "java.util.HashMap",
    "interfaceType" : "java.util.Map",
    "keyLocationName" : "key",
  }"
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.
@param key The new value for the Key property for this object.
@see LogType
@return Returns a reference to this object so that method calls can be chained together.
@see LogType",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.
<p> If the service returns an enum value that is not available in the current SDK version, [@link #key] will return [@link LogType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #keyAsString].</p>
@return The value of the Key property for this object.
@see LogType",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "key",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "key",
 "uri" : false
 },
 "idempotencyToken" : false,
 "isBinary" : false,
 "jsonValue" : false,
 "list" : false,
 "listModel" : null,
 "map" : false,
 "mapModel" : null,
 "marshallingType" : "STRING",
 "name" : "Key",
 "sensitive" : false,
 "setterDocumentation" : "Sets the value of the Key property for this object.
@param key The new value for the Key property for this object.
@see LogType",
 "setterMethodName" : "setKey",
 "setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "key",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the \[@link LogPublishingOption.Builder\] avoiding the need to create one manually via \[@link LogPublishingOption.Builder\#build\]. When the \[@link Consumer\] completes, \[@link LogPublishingOption.Builder\#build\] is called immediately and its result is passed to \[@link LogPublishingOption.Builder\#value(LogPublishingOption)\].\n@param value a consumer that will call methods on \[@link LogPublishingOption.Builder\].\n@return Returns a reference to this object so that method calls can be chained together.\n@see \@value(LogPublishingOption)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.
The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.
The value of the Value property for this object.",
  "getterModel" : {
    "returnType" : "LogPublishingOption",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.\n@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : "",
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
"marshallingType" : "MAP",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>
@param options The log publishing options configured for the Elasticsearch domain.",
"setterMethodName" : "setOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "options",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : null,
  "simpleType" : "Map<String,LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "options",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>
  @param options The log publishing options configured for the Elasticsearch domain."
},
"xmlNameSpaceUri" : null,
"Status" : {
  "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>
  @param status a consumer that will call methods on <code>OptionStatus.Builder</code>
  @return Returns a reference to this object so that method calls can be chained together.
  @see #status(OptionStatus)",
  "deprecated" : false,
  "documentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See<br/>
  <code>OptionStatus</code> for the status information that's included. </p>
"endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. \n\n@param status The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. \n\n@return Returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName" : "status",

"getterDocumentation" : "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. \n\n@return The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included."

"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
" sensitive" : false,
"setterDocumentation" : "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. \n\n@param status The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included."

"setterMethodName" : "setStatus",

"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "documentation" : null
}
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : null,
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [

"beanStyleGetterMethodName" : "getOptionsAsStrings",
"beanStyleSetterMethodName" : "setOptionsWithStrings",
"c2jName" : "Options",
"c2jShape" : "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation" : "The log publishing options configured for the Elasticsearch domain.

This is a convenience that creates an instance of the {@link Map<String,LogPublishingOption>.Builder} avoiding the need to create one manually via {@link Map<String,LogPublishingOption>#builder()}. When the {@link Consumer} completes, {@link Map<String,LogPublishingOption>.Builder#build()} is called immediately and its result is passed to {@link #optionsAsStrings(Map<String,LogPublishingOption>)}.

When the method calls on the builder can be chained together.

@see #optionsWithStrings(Map<String,LogPublishingOption>)",
"deprecated" : false,
"documentation" : "The log publishing options configured for the Elasticsearch domain.

Attempts to modify the collection returned by this method will result in an

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "options",
"fluentEnumSetterMethodName" : "options",
"fluentGetterMethodName" : "optionsAsStrings",
"fluentSetterDocumentation" : "The log publishing options configured for the Elasticsearch domain.

This is a convenience that creates an instance of the {@link Map<String,LogPublishingOption>.Builder} avoiding the need to create one manually via {@link Map<String,LogPublishingOption>#builder()}. When the method completes, the builder is called immediately and its result is passed to the method. When the method returns a reference to this object so that method calls can be chained together.

@see #optionsWithStrings(Map<String,LogPublishingOption>)",
"getterDocumentation" : "The log publishing options configured for the Elasticsearch domain.

Attempts to modify the collection returned by this method will result in an

"paramDocumentation" : {

"optional" : false,
"type" : "Options",
"xmlNameSpaceUri" : null
}
UnsupportedOperationException.
</p>
@return The log publishing options configured for the Elasticsearch domain.

"getterModel" : {
 "returnType" : "java.util.Map<String,LogPublishingOption>",
 "documentation" : null
},

"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "Options",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "Options",
 "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
 "implType" : "java.util.HashMap",
 "interfaceType" : "java.util.Map",
 "keyLocationName" : "key",
 "keyModel" : {
 "beanStyleGetterMethodName" : "getKeyAsString",
 "beanStyleSetterMethodName" : "setKey",
 "c2jName" : "key",
 "c2jShape" : "LogType",
 "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String.Builder#build()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #keyAsString(String)}. {
 @param key a consumer that will call methods on { @link String.Builder}
 @return Returns a reference to this object so that method calls can be chained together.
 @see #keyAsString(String)}.
 "deprecated" : false,
 "documentation" : "",
 "endpointDiscoveryId" : false,
 "enumType" : "LogType",
 "eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "key",
"fluentEnumSetterMethodName" : "key",
"fluentGetterMethodName" : "keyAsString",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@see LogType
@return Returns a reference to this object so that method calls can be chained together.
@see LogType",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, {@link #key} will return {@link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #keyAsString}.

@return The value of the Key property for this object.
@see LogType",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key"}
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {

"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {

"beanStyleGetterMethodName": "getValue",
"beanStyleSetterMethodName": "setValue",
"c2jName": "value",
"c2jShape": "LogPublishingOption",

"defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object. This
is a convenience that creates an instance of the {@link LogPublishingOption.Builder} avoiding the need to create
one manually via {@link LogPublishingOption#builder()}. When the {@link Consumer} completes, {@link LogPublishingOption.Builder#build()} is called immediately and its result is passed to {@link #value(LogPublishingOption)}.\n\n@see #value(LogPublishingOption)"
,
"deprecated": false,
"documentation": "",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "value",
"fluentSetterDocumentation": "Sets the value of the Value property for this object.\n\n@see #value(LogPublishingOption)",

"getterDocumentation": "Returns the value of the Value property for this object.\n\n@see #value(LogPublishingOption)",

"setModel": {

"returnType": "LogPublishingOption",
"documentation": null
}
"http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "value",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "value",
    "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Value",
"sensitive": false,
"setterDocumentation": "Sets the value of the Value property for this object.\n@param value The new value for the Value property for this object."
"setterMethodName": "setValue",
"setterModel": {
    "variableDeclarationType": "LogPublishingOption",
    "variableName": "value",
    "variableType": "LogPublishingOption",
    "documentation": null,
    "simpleType": "LogPublishingOption",
    "variableSetterType": "LogPublishingOption"
},
"simple": false,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "LogPublishingOption",
    "variableName": "value",
    "variableType": "LogPublishingOption",
    "documentation": "",
    "simpleType": "LogPublishingOption",
    "variableSetterType": "LogPublishingOption"
}.
"xmlNameSpaceUri" : null };
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>
}

"marshallingType" : "MAP",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>
@param options The log publishing options configured for the Elasticsearch domain.
"setterMethodName" : "setOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",&
  "variableName" : "options",
  "variableType" : "java.util.Map<String,LogPublishingOption>",&
  "documentation" : null,
  "simpleType" : "Map<String,LogPublishingOption>",&
  "variableSetterType" : "java.util.Map<String,LogPublishingOption>
}

"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",&
  "variableName" : "options",
  "variableType" : "java.util.Map<String,LogPublishingOption>",&
  "documentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>
  @param options The log publishing options configured for the Elasticsearch domain.
  @see #status(OptionStatus)
  @param status a consumer that will call methods on OptionStatus.Builder
  @return Returns a reference to this object so that method calls can be chained together.
  @see #status(OptionStatus)

  "variableSetterType" : "java.util.Map<String,LogPublishingOption>
}

"xmlNameSpaceUri" : null

  "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>
  This is a convenience that creates an instance of the OptionStatus.Builder avoiding the need to create one manually via { OptionStatus.Builder().When the consumer completes, OptionStatus.Builder#build()} is called immediately and its result is passed to { OptionStatus.Status}. When a consumer that will call methods on OptionStatus.Builder returns a reference to this object so that method calls can be chained together.
  @see #status(OptionStatus)

  "deprecated" : false,
  "documentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See OptionStatus for the status information that's included. </p>
  @param status a consumer that will call methods on OptionStatus.Builder
  @return Returns a reference to this object so that method calls can be chained together.
  @see #status(OptionStatus)

  "enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. \n@param status The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. \n@return Returns a reference to this object so that method calls can be chained together.\n",
"getterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. \n@return The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.\n",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. \n@param status The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.\n",
"setterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"sensorSupport" : {},
"setterMethodName" : "setStatus",
"setterModel" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : null,
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that’s included. 
    
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
}
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "LogPublishingOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
    "flattened" : false,
    "resultWrapper" : null
},
"variable" : {
    "variableDeclarationType" : "LogPublishingOptionsStatus",
    "variableName" : "logPublishingOptionsStatus",
    "variableType" : "LogPublishingOptionsStatus",
    "documentation" : null,
    "simpleType" : "LogPublishingOptionsStatus",
    "variableSetterType" : "LogPublishingOptionsStatus"
},
"wrapper" : false
},
"LogType" : {
    "c2jName" : "LogType",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0,
],
"deprecated" : false,
"documentation" : "<p>Type of Log File, it can be one of the following: <ul> <li>INDEX_SLOW_LOGS: Index slow logs contain insert requests that took more time than configured index query log threshold to execute.</li> <li>SEARCH_SLOW_LOGS: Search slow logs contain search queries that took more time than configured search query log threshold to execute.</li> <li>ES_APPLICATION_LOGS: Elasticsearch application logs contain information about errors and warnings raised during the operation of the service and can be useful for troubleshooting.</li> </ul>",
"endpointDiscovery" : null,
"enums" : [ { 
 "name" : "INDEX_SLOW_LOGS",
 "value" : "INDEX_SLOW_LOGS"
 }, { 
 "name" : "SEARCH_SLOW_LOGS",
 "value" : "SEARCH_SLOW_LOGS"
 }, { 
 "name" : "ES_APPLICATION_LOGS",
 "value" : "ES_APPLICATION_LOGS"
 } ],
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "LogType",
"simpleMethod" : false,
"unmarshaller" : { 
 "flattened" : false,
 "resultWrapper" : null
 },
"variable" : { 
 "variableDeclarationType" : "LogType",
 "variableName" : "logType",
 "variableType" : "LogType",
 "documentation" : null,
 "simpleType" : "LogType"}
"variableSetterType" : "LogType",
],
"wrapper" : false
],
"NodeToNodeEncryptionOptions" : {
  "c2jName" : "NodeToNodeEncryptionOptions",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Specifies the node-to-node encryption options.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "marshallers" : [ {
    "beanStyleGetterMethodName" : "getEnabled",
    "beanStyleSetterMethodName" : "setEnabled",
    "c2jName" : "Enabled",
    "c2jShape" : "Boolean",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specify true to enable node-to-node encryption.</p>
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}.\n\nWhen the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #enabled(Boolean)}.\n\n@see #enabled(Boolean)",
    "deprecated" : false,
    "documentation" : "<p>Specify true to enable node-to-node encryption.</p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "null",
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "enabled",
    "fluentSetterDocumentation" : "<p>Specify true to enable node-to-node encryption.</p>\n\n@param enabled
Specify true to enable node-to-node encryption.

@returns Returns a reference to this object so that method calls can be chained together.

@property fluentSetterMethodName : "enabled",

@getter getEnabled() {
  return true;
}

@getter getFluentSetterMethodName() {
  return "enabled";
}

@getter getGetterDocumentation() {
  return "Specify true to enable node-to-node encryption.

@getter getGetterModel() {
  return {
    returnType : Boolean,
    documentation : null
  };
}

@getter getHttp() {
  return {
    additionalMarshallingPath : null,
    additionalUnmarshallingPath : null,
    flattened : false,
    greedy : false,
    header : false,
    isPayload : false,
    isStreaming : false,
    location : null,
    marshallLocation : "PAYLOAD",
    marshallLocationName : "Enabled",
    queryString : false,
    statusCode : false,
    unmarshallLocationName : "Enabled",
    uri : false
  };
}

@getter getIdempotencyToken() {
  return false;
}

@getter getIsBinary() {
  return false;
}

@getter getJsonValue() {
  return false;
}

@getter getList() {
  return false;
}

@getter getListModel() {
  return null;
}

@getter getMap() {
  return false;
}

@getter getMapModel() {
  return null;
}

@getter getMarshallingType() {
  return BOOLEAN;
}

@getter getName() {
  return "Enabled",
}

@getter getSensitive() {
  return false;
}

@getter getSetterDocumentation() {
  return "Specify true to enable node-to-node encryption.

@getter getSetterModel() {
  return {
    variableDeclarationType : Boolean,
    variableName : "enabled",
    variableType : Boolean,
    documentation : null,
    simpleType : "Boolean",
    variableSetterType : "Boolean"
  };
}

@getter getSetterMethodName() {
  return "setEnabled",
}

@getter getSetterModel() {
  return {
    "variableDeclarationType" : "Boolean",
    "variableName" : "enabled",
    "variableType" : "Boolean",
    "documentation" : null,
    "simpleType" : "Boolean",
    "variableSetterType" : "Boolean"
  };
}

@getter getSimple() {
  return true,
}

@getter getTimestampFormat() {
  return null,
}
"variable" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "enabled",
    "variableType" : "Boolean",
    "documentation" : "Specify true to enable node-to-node encryption."
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
    "Enabled" : {
        "beanStyleGetterMethodName" : "getEnabled",
        "beanStyleSetterMethodName" : "setEnabled",
        "c2jName" : "Enabled",
        "c2jShape" : "Boolean",
        "defaultConsumerFluentSetterDocumentation" : "Specify true to enable node-to-node encryption.
When the Consumer completes, Boolean.Builder#build() is called immediately and its result is passed to #enabled(Boolean).
@param enabled a consumer that will call methods on Boolean.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #enabled(Boolean)",
        "deprecated" : false,
        "documentation" : "Specify true to enable node-to-node encryption.
endpointDiscoveryId" : false,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : null,
        "fluentEnumSetterMethodName" : null,
        "fluentGetterMethodName" : "enabled",
        "fluentSetterDocumentation" : "Specify true to enable node-to-node encryption.
@return Specify true to enable node-to-node encryption.
getterDocumentation" : "Specify true to enable node-to-node encryption.
getterModel" : {
    "returnType" : "Boolean",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Enabled",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Enabled",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "Enabled",
"sensitive": false,
"setterDocumentation": "<p>Specify true to enable node-to-node encryption.</p>
@param enabled Specify true to enable node-to-node encryption.",
"setterMethodName": "setEnabled",
"setterModel": {
  "variableDeclarationType": "Boolean",
  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": "<p>Specify true to enable node-to-node encryption.</p>",
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
}
],
"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getEnabled",
    "beanStyleSetterMethodName": "setEnabled",
    "c2jName": "Enabled",
    "c2jShape": "Boolean",
    "c2jShape": "Boolean",
    "isStreaming": false,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "Enabled",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "Enabled",
    "uri": false
  }
]}
"defaultConsumerFluentSetterDocumentation": ": <p>Specify true to enable node-to-node encryption.</p>
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link enabled(Boolean)}. @param enabled a consumer that will call methods on {@link Boolean.Builder}.

@see #enabled(Boolean)"

"deprecated": false,
"documentation": "Specify true to enable node-to-node encryption."
"endpointDiscoveryId": false,
"eventId": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "enabled",
"fluentSetterDocumentation": "Specify true to enable node-to-node encryption.

@see #enabled(Boolean)"

"getterDocumentation": "Specify true to enable node-to-node encryption.

@see #enabled(Boolean)"

"getterModel": {
"returnType": "Boolean",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Enabled",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Enabled",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"JsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"param": null,
"return": null,
"setter": null,
"setterDocumentation": null,
"setterPlacement": null,
"setterSetterLocation": null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"sensitive" : false,
"setterDocumentation" : "<p>Specify true to enable node-to-node encryption.\</p>\n@param enabled Specify true to enable node-to-node encryption.\",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : "<p>Specify true to enable node-to-node encryption.\</p>\n@param enabled Specify true to enable node-to-node encryption.\",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "NodeToNodeEncryptionOptions",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"wrapper" : false
},
"NodeToNodeEncryptionOptionsStatus" : {
  "c2jName" : "NodeToNodeEncryptionOptionsStatus",
  "customization" : {

"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Status of the node-to-node encryption options for the specified Elasticsearch domain.</p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "NodeToNodeEncryptionOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via { @link NodeToNodeEncryptionOptions#builder()} . When the { @link Consumer} completes, { @link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to { @link #options(NodeToNodeEncryptionOptions)}. @param options a consumer a that will call methods on { @link NodeToNodeEncryptionOptions.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #options(NodeToNodeEncryptionOptions)",
"deprecated" : false,
"documentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.@return Returns a reference to this object so that method calls can be chained together."},
"fluentSetterMethodName" : "options"
"getterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@return Specifies the node-to-node encryption options for the specified Elasticsearch domain.".

"getterModel" : {
  "returnType" : "NodeToNodeEncryptionOptions",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"name" : "Options",

"sensitive" : false,

"setterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.".

"setterMethodName" : "setOptions",

"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "options",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "options",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
}

"simple" : false,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions"
"variableName": "options",
"variableType": "NodeToNodeEncryptionOptions",
"documentation": "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>",
"simpleType": "NodeToNodeEncryptionOptions",
"variableSetterType": "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri": null
},
{
"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the [@link OptionStatus.Builder] avoiding the need to create one manually via [@link OptionStatus#builder()].
When the [@link Consumer] completes, [@link OptionStatus.Builder#build()] is called immediately and its result is passed to [@link #status(OptionStatus)] a consumer that will call methods on [@link OptionStatus.Builder].

@returns Returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)",
"deprecated": false,
"documentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "status",
"fluentSetterMethodName": "status",
"fluentSetterDocumentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.

@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "status",
"getterDocumentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>"

@returns Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.

@see #status(OptionStatus)",
"getterModel": {
"returnType": "OptionStatus",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isBinary": false,
"list": false,
"listModel": null,
"map": false,
"marshallingType": "SDK_POJO",
"name": "Status",
"setterDocumentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.",
"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"xmlNameSpaceUri": null
}];

"membersAsMap": {
  "Options": {
    "beanStyleGetterMethodName": "getOptions",}
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "NodeToNodeEncryptionOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via {@link NodeToNodeEncryptionOptions#builder()}. When the {@link Consumer} completes, {@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to {@link #options(NodeToNodeEncryptionOptions)}. Returns a reference to this object so that method calls can be chained together.<b>\@return</b>

@see #options(NodeToNodeEncryptionOptions)",
"deprecated" : false,
"documentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.
@return Specifies the node-to-node encryption options for the specified Elasticsearch domain.",
"getterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@return Specifies the node-to-node encryption options for the specified Elasticsearch domain.",
"getterModel" : {
  "returnType" : "NodeToNodeEncryptionOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"sensitive" : false,

"setterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.",

"setterMethodName" : "setOptions",
"setterModel" : {
    "variableDeclarationType" : "NodeToNodeEncryptionOptions",
    "variableName" : "options",
    "variableType" : "NodeToNodeEncryptionOptions",
    "documentation" : null,
    "simpleType" : "NodeToNodeEncryptionOptions",
    "variableSetterType" : "NodeToNodeEncryptionOptions"
},

"simple" : false,
"timestampFormat" : null,

"variable" : {
    "variableDeclarationType" : "NodeToNodeEncryptionOptions",
    "variableName" : "options",
    "variableType" : "NodeToNodeEncryptionOptions",
    "documentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>",
    "simpleType" : "NodeToNodeEncryptionOptions",
    "variableSetterType" : "NodeToNodeEncryptionOptions"
},

"xmlNameSpaceUri" : null
},

"Status" : {
    "beanStyleGetterMethodName" : "getStatus",
    "beanStyleSetterMethodName" : "setStatus",
    "c2jName" : "Status",
    "c2jShape" : "OptionStatus",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link OptionStatus} avoiding the need to create one manually via {@link OptionStatus#builder()}. When the method completes, an instance of the @link OptionStatus is called immediately and its result is passed to the consumer that will call methods on the instance.

@param status a consumer that will call methods on the instance
@return Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
    "deprecated" : false,
    "documentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>",
    "deprecatedFieldSetterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>",
    "description" : "Status of the node-to-node encryption options for the specified Elasticsearch domain.",
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
    "map" : false,
    "mapModel" : null,
    "marshallingType" : "SDK_POJO",
    "name" : "Status",
    "sensitive" : false,
    "setterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.",
    "setterMethodName" : "setStatus",
    "setterModel" : {
        "variableDeclarationType" : "OptionStatus",
        "variableName" : "status",
        "variableType" : "OptionStatus",
        "documentation" : null,
        "simpleType" : "OptionStatus",
        "variableSetterType" : "OptionStatus"
    },
    "simple" : false,
    "timestampFormat" : null,
    "variable" : {
        "variableDeclarationType" : "OptionStatus",
        "variableName" : "status",
        "variableType" : "OptionStatus",
        "documentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>",
        "simpleType" : "OptionStatus",
        "variableSetterType" : "OptionStatus"
    },
    "xmlNameSpaceUri" : null
}

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Elasticsearch domain.

@endpointDiscoveryId: false,
enumType: null,
eventId: false,
eventPayload: false,

@fluentEnumGetterMethodName: null,
@fluentEnumSetterMethodName: null,
@fluentGetterMethodName: "status",
@fluentSetterDocumentation: "Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.

@getterDocumentation: "Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.

@getterModel: {
  returnType: "OptionStatus",
  documentation: null
}

@http: {
  additionalMarshallingPath: null,
  additionalUnmarshallingPath: null,
  flattened: false,
  greedy: false,
  header: false,
  isPayload: false,
  isStreaming: false,
  location: null,
  marshallLocation: "PAYLOAD",
  marshallLocationName: "Status",
  queryString: false,
  statusCode: false,
  unmarshallLocationName: "Status",
  uri: false
}

@idempotencyToken: false,
@isBinary: false,
@jsonValue: false,
@list: false,
@listModel: null,
@map: false,
@mapModel: null,
@marshallingType: "SDK_POJO",
@name: "Status",
@sensitive: false,

@setterDocumentation: "Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.

@getterDocumentation: "Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.

@getterModel: {
  returnType: "OptionStatus",
  documentation: null
}

@http: {
  additionalMarshallingPath: null,
  additionalUnmarshallingPath: null,
  flattened: false,
  greedy: false,
  header: false,
  isPayload: false,
  isStreaming: false,
  location: null,
  marshallLocation: "PAYLOAD",
  marshallLocationName: "Status",
  queryString: false,
  statusCode: false,
  unmarshallLocationName: "Status",
  uri: false
}

@idempotencyToken: false,
@isBinary: false,
@jsonValue: false,
@list: false,
@listModel: null,
@map: false,
@mapModel: null,
@marshallingType: "SDK_POJO",
@name: "Status",
@sensitive: false,

@setterDocumentation: "Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.

@getterDocumentation: "Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.

@getterModel: {
  returnType: "OptionStatus",
  documentation: null
}

@http: {
  additionalMarshallingPath: null,
  additionalUnmarshallingPath: null,
  flattened: false,
  greedy: false,
  header: false,
  isPayload: false,
  isStreaming: false,
  location: null,
  marshallLocation: "PAYLOAD",
  marshallLocationName: "Status",
  queryString: false,
  statusCode: false,
  unmarshallLocationName: "Status",
  uri: false
}

@idempotencyToken: false,
@isBinary: false,
@jsonValue: false,
@list: false,
@listModel: null,
@map: false,
@mapModel: null,
@marshallingType: "SDK_POJO",
@name: "Status",
@sensitive: false,
specified Elasticsearch domain.

"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "NodeToNodeEncryptionOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
  },
  {
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : null,
    "simple" : false,
    "timestampFormat" : null,
    "variable" : {
      "variableDeclarationType" : "OptionStatus",
      "variableName" : "status",
      "variableType" : "OptionStatus",
      "documentation" : null,
      "simpleType" : "OptionStatus",
      "variableSetterType" : "OptionStatus"
    },
    "xmlNameSpaceUri" : null
  }
],

"deprecated" : false,
"documentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via {@link NodeToNodeEncryptionOptions#builder()}. When the {@link Consumer} completes, {@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to {@link NodeToNodeEncryptionOptions#options(NodeToNodeEncryptionOptions)}. Returns a reference to this object so that method calls can be chained together. @see {options(NodeToNodeEncryptionOptions)}",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>"
Elasticsearch domain.

@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

"getterModel": {
    "returnType": "NodeToNodeEncryptionOptions",
    "documentation": null
},

"http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "Options",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "Options",
    "uri": false
},

"idempotencyToken": false,

"setterModel": {
    "variableDeclarationType": "NodeToNodeEncryptionOptions",
    "variableName": "options",
    "variableType": "NodeToNodeEncryptionOptions",
    "documentation": null,
    "simpleType": "NodeToNodeEncryptionOptions",
    "variableSetterType": "NodeToNodeEncryptionOptions"
},

"setterMethodName": "setOptions",

"setterModel": {
    "variableDeclarationType": "NodeToNodeEncryptionOptions",
    "variableName": "options",
    "variableType": "NodeToNodeEncryptionOptions",
    "documentation": null,
    "simpleType": "NodeToNodeEncryptionOptions",
    "variableSetterType": "NodeToNodeEncryptionOptions"
},

"simple": false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "options",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch
domain.</p>",
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri" : null,

"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the node-to-node encryption
options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the @link OptionStatus.Builder} avoiding the need to create one manually via {...@link OptionStatus#builder()}.\n\nWhen the {...@link Consumer} completes, {...@link OptionStatus.Builder#build()} is called immediately and its result is passed
to {...@link #status(OptionStatus)}.\n\n@return Returns a reference to this object so that method calls can be chained
together.@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the status of the node-to-node encryption options for the specified
Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified
Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the
specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained
together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified
Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the
specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained
together.",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Status",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Status",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
" sensitive": false,
"setterDocumentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.",
"setterMethodName": "setStatus",
"setterModel": {
 "variableDeclarationType": "OptionStatus",
 "variableName": "status",
 "variableType": "OptionStatus",
 "documentation": null,
 "simpleType": "OptionStatus",
 "variableSetterType": "OptionStatus"
 },
"simple": false,
"timestampFormat": null,
"variable": {
 "variableDeclarationType": "OptionStatus",
 "variableName": "status",
 "variableType": "OptionStatus",
 "documentation": 
 "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
"simpleType": "OptionStatus",
 "variableSetterType": "OptionStatus"
 },
"xmlNameSpaceUri": null}
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "Options", "Status" ],
"shapeName": "NodeToNodeEncryptionOptionsStatus",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "NodeToNodeEncryptionOptionsStatus",
  "variableName": "nodeToNodeEncryptionOptionsStatus",
  "variableType": "NodeToNodeEncryptionOptionsStatus",
  "documentation": null,
  "simpleType": "NodeToNodeEncryptionOptionsStatus",
  "variableSetterType": "NodeToNodeEncryptionOptionsStatus"
},
"wrapper": false,
"OptionState": {
  "c2jName": "OptionState",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "The state of a requested change. One of the following:
  - Active: The request change is processed and deployed to the Elasticsearch domain.
  - Processing: The request change is still in-process.
  - RequiresIndexDocuments: A request change that has not been processed.

  - RequiresIndexDocuments
"},
"endpointDiscovery": null,
"enums": [ { "name": "REQUIRES_INDEX_DOCUMENTS", "value": "RequiresIndexDocuments" }, { "name": "PROCESSING", "value": "Processing" }, { "name": "ACTIVE", "value": "Active" } ],
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
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"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "OptionState",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "OptionState",
  "variableName" : "optionState",
  "variableType" : "OptionState",
  "documentation" : null,
  "simpleType" : "OptionState",
  "variableSetterType" : "OptionState"
},
"wrapper" : false
},
"OptionStatus" : {
  "c2jName" : "OptionStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Provides the current status of the entity.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ 
  "beanStyleGetterMethodName" : "getCreationDate",
  "beanStyleSetterMethodName" : "setCreationDate",
  "c2jName" : "CreationDate",
  "c2jShape" : "UpdateTimestamp",
  "defaultConsumerFluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
This is a convenience that creates an instance of the { @link Instant.Builder} avoiding the need to create one manually via { @link Instant.Builder}. When the { @link Consumer} completes, { @link Instant.Builder#build()} is called immediately and its result is passed to { @link #creationDate(Instant)}.<p>@param creationDate a consumer that will call methods on { @link Instant.Builder} and return
Returns a reference to this object so that method calls can be chained together.</p>
@see #creationDate(Instant)",
  "deprecated" : false,
  "documentation" : "<p>Timestamp which tells the creation date for the entity.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentToStringMethodName" : null,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "creationDate",
  "fluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
@param creationDate Timestamp which tells the creation date for the entity.
@return Returns a reference to this object so that method calls can be chained together.
",
  "fluentSetterMethodName" : "creationDate",
  "getterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
@return Timestamp which tells the creation date for the entity.
",
  "getterModel" : {
    "returnType" : "java.time.Instant",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "CreationDate",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "CreationDate",
    "uri" : false
  }
]
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "CreationDate",
"sensitive" : false,
"setterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
@param creationDate Timestamp which tells the creation date for the entity.",
"setterMethodName" : "setCreationDate",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "creationDate",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "creationDate",
  "variableType" : "java.time.Instant",
  "documentation" : "<p>Timestamp which tells the creation date for the entity.</p>",
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpdateDate",
"beanStyleSetterMethodName" : "setUpdateDate",
"c2jName" : "UpdateDate",
"c2jShape" : "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
This is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via {@link Instant.Builder}. When the {@link Consumer} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to {@link #updateDate(Instant)}. Returns a reference to this object so that method calls can be chained together.
@see #updateDate(Instant)",
"deprecated" : false,
"documentation" : "<p>Timestamp which tells the last updated time for the entity.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateDate",
"fluentSetterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
@param updateDate Timestamp which tells the last updated time for the entity.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "updateDate",
"getterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
@return Timestamp which tells the last updated time for the entity.",
"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpdateDate",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpdateDate",
  "uri" : false
},
idempotencyToken" : false,
isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "UpdateDate",
"sensitive" : false,
"setterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
@param updateDate Timestamp which tells the last updated time for the entity.
@return Returns a reference to this object so that method calls can be chained together."
"setterMethodName" : "setUpdateDate",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "updateDate",
  "variableType" : "java.time.Instant",
  "documentation" : null,
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.time.Instant",
"variableName" : "updateDate",
"variableType" : "java.time.Instant",
"documentation" : "<p>Timestamp which tells the last updated time for the entity.</p>",
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpdateVersion",
"beanStyleSetterMethodName" : "setUpdateVersion",
"c2jName" : "UpdateVersion",
"c2jShape" : "UIntValue",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the latest version for the entity.</p>

This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer.Builder#builder()]. When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link updateVersion(Integer)] a consumer that will call methods on [@link Integer.Builder] a reference to this object so that method calls can be chained together.

@see #updateVersion(Integer)

"deprecated" : false,
"documentation" : "<p>Specifies the latest version for the entity.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateVersion",
"fluentSetterDocumentation" : "<p>Specifies the latest version for the entity.</p>

Specifies the latest version for the entity.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "updateVersion",
"getterDocumentation" : "<p>Specifies the latest version for the entity.</p>

Specifies the latest version for the entity.

@return Specifies the latest version for the entity.

"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "UpdateVersion",
"simple" : false,
"setterDocumentation" : "<p>Specifies the latest version for the entity.</p>
@<param updateVersion Specifies the latest version for the entity."
,"setterMethodName" : "setUpdateVersion",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "updateVersion",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "updateVersion",
  "variableType" : "Integer",
  "documentation" : "<p>Specifies the latest version for the entity.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStateAsString",
"beanStyleSetterMethodName" : "setState",
"c2jName" : "State"}
"c2jShape" : "OptionState",
"defaultConsumerFluentSetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #stateAsString(String) }.

@param state a consumer that will call methods on { @link String.Builder }
@return Returns a reference to this object so that method calls can be chained together.
@see #state(String)",
"deprecated" : false,
"documentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>

@endpointDiscoveryId" : false,
"enumType" : "OptionState",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "state",
"fluentEnumSetterMethodName" : "state",
"fluentGetterMethodName" : "stateAsString",
"fluentSetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>

@param state Provides the <code>OptionState</code> for the Elasticsearch domain.
@see OptionState
@return Returns a reference to this object so that method calls can be chained together.
@see OptionState",
"fluentSetterMethodName" : "state",
"getterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>

If the service returns an enum value that is not available in the current SDK version, { @link #state } will return { @link OptionState#UNKNOWN_TO_SDK_VERSION }. The raw value returned by the service is available from { @link #stateAsString }.

@see OptionState
@return Provides the <code>OptionState</code> for the Elasticsearch domain.
@see OptionState",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "State",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "State",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "State",
"sensitive": false,
"setterDocumentation": "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
@param state Provides the <code>OptionState</code> for the Elasticsearch domain.
@see OptionState",
"setterMethodName": "setState",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "state",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "state",
  "variableType": "String",
  "documentation": "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
{
  "beanStyleGetterMethodName": "getPendingDeletion",
  "beanStyleSetterMethodName": "setPendingDeletion",
  "c2jName": "PendingDeletion",
  "c2jShape": "Boolean",
  "defaultConsumerFluentSetterDocumentation": "<p>Indicates whether the Elasticsearch domain is being deleted.

This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean.Builder#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #pendingDeletion(Boolean)}.

@see #pendingDeletion(Boolean)"
, "deprecated": false,
  "documentation": "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
  "enumType": null,
  "eventHeader": false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "pendingDeletion",
"fluentSetterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p><p>@param pendingDeletion Indicates whether the Elasticsearch domain is being deleted.</p><p>@return Returns a reference to this object so that method calls can be chained together.</p>",
"fluentSetterMethodName" : "pendingDeletion",
"getterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p><p>@return Indicates whether the Elasticsearch domain is being deleted.</p>
getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "PendingDeletion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "PendingDeletion",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "PendingDeletion",
"sensitive" : false,
"setterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p><p>@param pendingDeletion Indicates whether the Elasticsearch domain is being deleted.</p><p>@return Indicates whether the Elasticsearch domain is being deleted.</p>
setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
}

"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
  "CreationDate" : {
    "beanStyleGetterMethodName" : "getCreationDate",
    "beanStyleSetterMethodName" : "setCreationDate",
    "c2jName" : "CreationDate",
    "c2jShape" : "UpdateTimestamp",
    "defaultConsumerFluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
This is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via {@link Instant.Builder#builder()}. When the [@link Instant.Builder#build()] completes, it is called immediately and its result is passed to {#creationDate(Instant)}. @param creationDate a consumer that will call methods on {#instant.Builder} param Returns a reference to this object so that method calls can be chained together. @see #creationDate(Instant)",
    "deprecated" : false,
    "documentation" : "<p>Timestamp which tells the creation date for the entity.</p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "creationDate",
    "fluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
@return Timestamp which tells the creation date for the entity.
"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CreationDate",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CreationDate",
"uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "CreationDate",
"sensitive" : false,
"setterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>\n@par

creationDate Timestamp which tells the creation date for the entity.",
"setterMethodName" : "setCreationDate",
"setterModel" : {
"variableDeclarationType" : "java.time.Instant",
"variableName" : "creationDate",
"variableType" : "java.time.Instant",
"documentation" : null,
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.time.Instant",
"variableName" : "creationDate",
"variableType" : "java.time.Instant",
"documentation" : "<p>Timestamp which tells the creation date for the entity.</p>",
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"PendingDeletion" : {
}
"beanStyleGetterMethodName" : "getPendingDeletion",
"beanStyleSetterMethodName" : "setPendingDeletion",
"c2jName" : "PendingDeletion",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean#builder()}. When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #pendingDeletion(Boolean)}.

@see #pendingDeletion(Boolean)",
"deprecated" : false,
"documentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "pendingDeletion",
"fluentSetterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
@param pendingDeletion Indicates whether the Elasticsearch domain is being deleted.
@return Returns a reference to this object so that method calls can be chained together.
@see #pendingDeletion(Boolean)",
"getterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
@return Indicates whether the Elasticsearch domain is being deleted.
@see #pendingDeletion(Boolean)",
"getterModel" : {
   "returnType" : "Boolean",
   "documentation" : "null",
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "PendingDeletion",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "PendingDeletion",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "PendingDeletion",
"sensitive" : false,
"setterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
@param pendingDeletion Indicates whether the Elasticsearch domain is being deleted."
,  
"setterMethodName" : "setPendingDeletion",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null,
"State" : {
  "beanStyleGetterMethodName" : "getStateAsString",
  "beanStyleSetterMethodName" : "setState",
  "c2jName" : "State",
  "c2jShape" : "OptionState",
  "defaultConsumerFluentSetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
  "@param state a consumer that will call methods on {<link String.Builder}>\n  When the {<link Consumer}> completes, {<link String.Builder#build>\n  the result is passed to {<link #stateAsString>\n  return Returns a reference to this object so that method calls can be chained together.\n  @see #state(String)",
  "deprecated" : false,
  "documentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : "OptionState",
  "eventHeader" : false,
  "eventPayload" : false,
"fluentEnumGetterMethodName" : "state",
"fluentEnumSetterMethodName" : "state",
"fluentGetterMethodName" : "stateAsString",
"fluentSetterDocumentation" : "<p>Provides the &lt;code&gt;OptionState&lt;/code&gt; for the Elasticsearch domain.&lt;/p&gt;
@param state Provides the &lt;code&gt;OptionState&lt;/code&gt; for the Elasticsearch domain.
@see OptionState
@return Returns a reference to this object so that method calls can be chained together.
@see OptionState",
"fluentSetterMethodName" : "state",
"getterDocumentation" : "<p>Provides the &lt;code&gt;OptionState&lt;/code&gt; for the Elasticsearch domain.
<p>
If the service returns an enum value that is not available in the current SDK version, [@link #state] will return [@link OptionState#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #stateAsString].
</p&gt;
@return Provides the &lt;code&gt;OptionState&lt;/code&gt; for the Elasticsearch domain.
@see OptionState",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "State",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "State",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "State",
"sensitive" : false,
"setterDocumentation" : "<p>Provides the &lt;code&gt;OptionState&lt;/code&gt; for the Elasticsearch domain.
@param state Provides the &lt;code&gt;OptionState&lt;/code&gt; for the Elasticsearch domain.
@see OptionState",
"setterMethodName" : "setState",
"setterModel" : {
"variableDeclarationType": "String",
"variableName": "state",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "state",
"variableType": "String",
"documentation": "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"UpdateDate": {
"beanStyleGetterMethodName": "getUpdateDate",
"beanStyleSetterMethodName": "setUpdateDate",
"c2jName": "UpdateDate",
"c2jShape": "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation": "<p>Timestamp which tells the last updated time for the entity.
This is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via{@link Instant.Builder()}. When the{@link Instant.Consumer} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to{@link #updateDate(Instant)}.<code>updateDate</code>a consumer that will call methods on{@link Instant.Builder}@return Returns a reference to this object so that method calls can be chained together.<code>see #updateDate(Instant)".</code>
"deprecated": false,
"documentation": "<p>Timestamp which tells the last updated time for the entity.</p>
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "updateDate",
"fluentSetterDocumentation": "Timestamp which tells the last updated time for the entity.
@see #updateDate(Instant)"
"fluentSetterMethodName": "updateDate",
"getterDocumentation": "<p>Timestamp which tells the last updated time for the entity.</p>
"getterModel": {
"returnType": "java.time.Instant",
"documentation": null
"http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "UpdateDate",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "UpdateDate",
    "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INSTANT",
"name": "UpdateDate",
"sensitive": false,
"setterDocumentation": "<p>Timestamp which tells the last updated time for the entity.</p>
@param updateDate Timestamp which tells the last updated time for the entity.",
"setterMethodName": "setUpdateDate",
"setterModel": {
    "variableDeclarationType": "java.time.Instant",
    "variableName": "updateDate",
    "variableType": "java.time.Instant",
    "documentation": null,
    "simpleType": "Instant",
    "variableSetterType": "java.time.Instant"
},
"simple": true,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "java.time.Instant",
    "variableName": "updateDate",
    "variableType": "java.time.Instant",
    "documentation": "<p>Timestamp which tells the last updated time for the entity.</p>",
    "simpleType": "Instant",
    "variableSetterType": "java.time.Instant"
}
"xmlNameSpaceUri" : null
},
"UpdateVersion" : {
"beanStyleGetterMethodName" : "getUpdateVersion",
"beanStyleSetterMethodName" : "setUpdateVersion",
"c2jName" : "UpdateVersion",
"c2jShape" : "UIntValue",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the latest version for the entity.</p>
This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer#builder()].

When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link #updateVersion(Integer)].

@param updateVersion a consumer that will call methods on [@link Integer.Builder]n@return Returns a reference to this object so that method calls can be chained together.

@see #updateVersion(Integer)
",
"deprecated" : false,
"documentation" : "<p>Specifies the latest version for the entity.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateVersion",
"fluentSetterDocumentation" : "<p>Specifies the latest version for the entity.</p>
@param updateVersion Specifies the latest version for the entity.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "updateVersion",
"getterDocumentation" : "<p>Specifies the latest version for the entity.</p>
@return Specifies the latest version for the entity.
",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateVersion",
"uri" : false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "UpdateVersion",
"sensitive": false,
"setterDocumentation": "<p>Specifies the latest version for the entity. </p>@param updateVersion Specifies the latest version for the entity. ",
"setterMethodName": "setUpdateVersion",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "updateVersion",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "updateVersion",
  "variableType": "Integer",
  "documentation": "<p>Specifies the latest version for the entity. </p>
  @param updateVersion Specifies the latest version for the entity. ",
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
},
"nonStreamingMembers": [ {
  "beanStyleGetterMethodName": "getCreationDate",
  "beanStyleSetterMethodName": "setCreationDate",
  "c2jName": "CreationDate",
  "c2jShape": "UpdateTimestamp",
  "defaultConsumerFluentSetterDocumentation": "<p>Timestamp which tells the creation date for the entity. </p>

  This is a convenience that creates an instance of the { @link Instant.Builder } avoiding the need to create one manually via { @link Instant#builder() }. 

  When the { @link Consumer } completes, { @link Instant.Builder#build() } is called immediately and its result is passed to { @link #creationDate(Instant) }.

  @param creationDate a consumer that will call methods on { @link Instant.Builder } returns a reference to this object so that method calls can be chained together. { @link #creationDate(Instant) }

  "deprecated": false,
  "documentation": "<p>Timestamp which tells the creation date for the entity. </p>
  @param creationDiscoveryId "false,
  "endpointDiscoveryId": false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "creationDate",
"fluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.\n@\param\ncreationDate Timestamp which tells the creation date for the entity.\n@return\nReturns a reference to this object so that method calls can be chained together.\n</p>\n@\signature\n\n@\param\ncreationDate Timestamp which tells the creation date for the entity.\n@return\nReturns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName" : "creationDate",
"getterDocumentation" : "<p>Timestamp which tells the creation date for the entity.\n@return\nTimestamp which tells the creation date for the entity.\n",
"getterModel" : {
   "returnType" : "java.time.Instant",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "CreationDate",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "CreationDate",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "CreationDate",
"sensitive" : false,
"setterDocumentation" : "<p>Timestamp which tells the creation date for the entity.\n@\signature\n\n@\param\ncreationDate Timestamp which tells the creation date for the entity.\n@return\nReturns a reference to this object so that method calls can be chained together.\n",
"setterMethodName" : "setCreationDate",
"setterModel" : {
   "variableDeclarationType" : "java.time.Instant",
   "variableName" : "creationDate",
}
"variableType" : "java.time.Instant",
"documentation" : null,
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "creationDate",
  "variableType" : "java.time.Instant",
  "documentation" : "<p>Timestamp which tells the creation date for the entity.</p>",
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpdateDate",
"beanStyleSetterMethodName" : "setUpdateDate",
"c2jName" : "UpdateDate",
"c2jShape" : "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>\nThis is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via {@link Instant.Builder#builder()}.\nWhen the {@link Instant.Builder#build()} is called immediately and its result is passed to {@link #updateDate(Instant)}.\n\n@param updateDate a consumer that will call methods on {@link Instant.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #updateDate(Instant)",
"deprecated" : false,
"documentation" : "<p>Timestamp which tells the last updated time for the entity.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateDate",
"fluentSetterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>\n@param updateDate Timestamp which tells the last updated time for the entity.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #updateDate(Instant)",
"http" : {
  "additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateDate",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateDate",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "UpdateDate",
"sensitive" : false,
"setterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
@param
updateDate Timestamp which tells the last updated time for the entity.
"setterMethodName" : "setUpdateDate",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "updateDate",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "updateDate",
  "variableType" : "java.time.Instant",
  "documentation" : "<p>Timestamp which tells the last updated time for the entity.</p>",
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpdateVersion"
"beanStyleSetterMethodName" : "setUpdateVersion",
"c2jName" : "UpdateVersion",
"c2jShape" : "UIntValue",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the latest version for the entity.</p>
This is a convenience that creates an instance of the [Integer.Builder] avoiding the need to create one manually via
{Integer#builder()}. When the [Consumer] completes, {Integer.Builder#build()} is called immediately and its result is passed to {updateVersion(Integer)}.

When the [Consumer] completes, {Integer.Builder#build()} is called immediately and its result is passed to {updateVersion(Integer)}.

When the [Consumer] completes, {Integer.Builder#build()} is called immediately and its result is passed to {updateVersion(Integer)}.

@see updateVersion(Integer)",
"deprecated" : false,
"documentation" : "<p>Specifies the latest version for the entity.</p>",
"endpointDiscoveryId" : false,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateVersion",
"fluentSetterMethodName" : "updateVersion",
"getterDocumentation" : "<p>Specifies the latest version for the entity.</p>
@return Specifies the latest version for the entity.",
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpdateVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpdateVersion",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "UpdateVersion",
"sensitive": false,
"setterDocumentation": "<p>Specifies the latest version for the entity.</p>@param updateVersion Specifies the latest version for the entity.",
"setterMethodName": "setUpdateVersion",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "updateVersion",
  "variableType": "Integer",
  "documentation": "<p>Specifies the latest version for the entity.</p>",
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "updateVersion",
  "variableType": "Integer",
  "documentation": "<p>Specifies the latest version for the entity.</p>",
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getStateAsString",
"beanStyleSetterMethodName": "setState",
"c2jName": "State",
"c2jShape": "OptionState",
"defaultConsumerFluentSetterDocumentation": "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}.\n\nWhen the {@link Consumer} completes, [{\link String.Builder#build()} is called immediately and its result is passed to [{\link #stateAsString(String)}].\n\n@param state a consumer that will call methods on [{\link String.Builder}]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #state(String)",
"deprecated": false,
"documentation": "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>\n\nendpointDiscoveryId": false,
"enumType": "OptionState",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "state",
"fluentEnumSetterMethodName": "state",
"fluentGetterMethodName": "stateAsString"
"fluentSetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.

@param state Provides the <code>OptionState</code> for the Elasticsearch domain.

@see OptionState

@return Returns a reference to this object so that method calls can be chained together.

@see OptionState",

"fluentSetterMethodName" : "state",

"getterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>

@link state if the service returns an enum value that is not available in the current SDK version, { @link #state } will return { @link OptionState#UNKNOWN_TO_SDK_VERSION }. The raw value returned by the service is available from { @link #stateAsString }.

@return Provides the <code>OptionState</code> for the Elasticsearch domain.

@see OptionState",

"getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "State",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "State",
"uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "State",

"sensitive" : false,

"setterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.

@param state Provides the <code>OptionState</code> for the Elasticsearch domain.

@see OptionState",

"setterMethodName" : "setState",

"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "state",
"variableType" : "String",
}
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "state",
  "variableType": "String",
  "documentation": "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlnsNameSpaceUri": null
},
{
  "beanStyleGetterMethodName": "getPendingDeletion",
  "beanStyleSetterMethodName": "setPendingDeletion",
  "c2jName": "PendingDeletion",
  "c2jShape": "Boolean",
  "defaultConsumerFluentSetterDocumentation": "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
This is a convenience that creates an instance of the [link Boolean.Builder] avoiding the need to create one manually via [link Boolean#builder()].
When the [link Consumer] completes, [link Boolean.Builder#build()] is called immediately and its result is passed to [link Boolean.Builder#pendingDeletion(Boolean)].
@param pendingDeletion a consumer that will call methods on [link Boolean.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #pendingDeletion(Boolean)",
  "deprecated": false,
  "documentation": "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "pendingDeletion",
  "fluentSetterDocumentation": "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
Indicates whether the Elasticsearch domain is being deleted.
@return Returns a reference to this object so that method calls can be chained together.
@see #pendingDeletion(Boolean)",
  "getterDocumentation": "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
Indicates whether the Elasticsearch domain is being deleted.
@return Indicates whether the Elasticsearch domain is being deleted.
@see #pendingDeletion(Boolean)",
  "getterModel": {
    "returnType": "Boolean",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "PendingDeletion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "PendingDeletion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "PendingDeletion",
" sensitive" : false,
"setterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
@param
pendingDeletion Indicates whether the Elasticsearch domain is being deleted."
,
"setterMethodName" : "setPendingDeletion",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
]",
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "CreationDate", "UpdateDate", "State" ],
"shapeName" : "OptionStatus",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "optionStatus",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"wrapper" : false
},
"PurchaseReservedElasticsearchInstanceOfferingRequest" : {
  "c2jName" : "PurchaseReservedElasticsearchInstanceOfferingRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Container for parameters to
<code>PurchaseReservedElasticsearchInstanceOffering</code></p>儆",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : {
    "action" : "PurchaseReservedElasticsearchInstanceOffering",
    "locationName" : null,
    "requestUri" : "/2015-01-01/es/purchaseReservedInstanceOffering",
    "target" : null,
    "verb" : "POST",
    "xmlNameSpaceUri" : null
The ID of the reserved Elasticsearch instance offering to purchase. This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via String.Builder(). When the Consumer completes, String.Builder.build() is called immediately and its result is passed to a consumer that will call methods on String.Builder. @see #reservedElasticsearchInstanceOfferingId(String)
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservedElasticsearchInstanceOfferingId",
"sensitive": false,
"setterDocumentation": "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>
@param reservedElasticsearchInstanceOfferingId The ID of the reserved Elasticsearch instance offering to purchase.",
"setterMethodName": "setReservedElasticsearchInstanceOfferingId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,

",beanStyleGetterMethodName": "getReservationName",
"beanStyleSetterMethodName": "setReservationName",
"c2jName": "ReservationName",
"c2jShape": "ReservationToken",
"defaultConsumerFluentSetterDocumentation": "<p>A customer-specified identifier to track this reservation.</p>

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()]

When the [String.Builder] completes, [String.Builder#build()] is called immediately and its result is passed to [StringReservationName(String)].

@param reservationName a consumer that will call methods on [String.Builder]

@returns Returns a reference to this object so that method calls can be chained together.

@see #reservationName(String)",
"deprecated": false,
"documentation": "<p>A customer-specified identifier to track this reservation.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventIdHeader" : false,
"eventIdPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterDocumentation" : "<p>A customer-specified identifier to track this reservation.<br />\n@return Returns a reference to this object so that method calls can be chained together.\n</p>\n@param reservationName A customer-specified identifier to track this reservation.\n@return A customer-specified identifier to track this reservation.\n",
"fluentSetterMethodName" : "reservationName",
"getterDocumentation" : "<p>A customer-specified identifier to track this reservation.\n</p>\n@return A customer-specified identifier to track this reservation.\n",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"sensitive" : false,
"setterDocumentation" : "<p>A customer-specified identifier to track this reservation.\n</p>\n@param reservationName A customer-specified identifier to track this reservation.\n",
"setterMethodName" : "setReservationName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservationName",
"variableType" : "String"}
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : "<p>A customer-specified identifier to track this reservation.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getInstanceCount",
  "beanStyleSetterMethodName" : "setInstanceCount",
  "c2jName" : "InstanceCount",
  "c2jShape" : "InstanceCount",
  "defaultConsumerFluentSetterDocumentation" : "<p>The number of Elasticsearch instances to reserve.</p>
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link Integer.Builder#instanceCount(Integer)}.<p>@param instanceCount a consumer that will call methods on {@link Integer#instanceCount(Integer)}<p>@return Returns a reference to this object so that method calls can be chained together.</p>"
,  "deprecated" : false,
  "documentation" : "<p>The number of Elasticsearch instances to reserve.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "instanceCount",
  "fluentSetterDocumentation" : "<p>The number of Elasticsearch instances to reserve.</p>
The number of Elasticsearch instances to reserve.<p>@param instanceCount The number of Elasticsearch instances to reserve.<p>@return Returns a reference to this object so that method calls can be chained together.</p>"
,  "fluentSetterMethodName" : "instanceCount",
  "getterDocumentation" : "<p>The number of Elasticsearch instances to reserve.</p>
The number of Elasticsearch instances to reserve.<p>@return The number of Elasticsearch instances to reserve.</p>"
,  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceCount",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "InstanceCount",
"setterDocumentation" : "<p>The number of Elasticsearch instances to reserve.</p>
@param instanceCount
The number of Elasticsearch instances to reserve.",
"setterMethodName" : "setInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of Elasticsearch instances to reserve.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlnsNameSpaceUri" : null
},
"membersAsMap" : {

"InstanceCount" : {
  "beanStyleGetterMethodName" : "getInstanceCount",
  "beanStyleSetterMethodName" : "setInstanceCount",
  "c2jName" : "InstanceCount",
  "c2jShape" : "InstanceCount",
  "defaultConsumerFluentSetterDocumentation" : "<p>The number of Elasticsearch instances to reserve.\nThis is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via `{@link Integer#builder()}.\nWhen the {@link Consumer} completes, `{@link Integer.Builder#build()}` is called immediately and its result is passed to `{@link #instanceCount(Integer)}`.\n@throws IllegalArgumentException if the instance count is not positive.\n@throws NullPointerException if the consumer returns null.\n@param instanceCount a consumer that will call methods on `{@link Integer.Builder}`\n@return Returns a reference to this object so that method calls can be chained together.\n@see #instanceCount(Integer)"
  ,
  "deprecated" : false,
  "documentation" : "<p>The number of Elasticsearch instances to reserve.\n</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "instanceCount",
  "fluentSetterDocumentation" : "<p>The number of Elasticsearch instances to reserve.\n</p>\n@param instanceCount The number of Elasticsearch instances to reserve.\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #instanceCount(Integer)",
  "fluentSetterMethodName" : "instanceCount",
  "getterDocumentation" : "<p>The number of Elasticsearch instances to reserve.\n</p>\n@return The number of Elasticsearch instances to reserve.\n",
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : false,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "InstanceCount",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "InstanceCount",
    "uri" : false
  },
  "idempotencyToken" : false,
The number of Elasticsearch instances to reserve.

```java
public class InstanceCount {
    private Integer instanceCount;

    public Integer getInstanceCount() {
        return instanceCount;
    }

    public void setInstanceCount(Integer instanceCount) {
        this.instanceCount = instanceCount;
    }
}
```

A customer-specified identifier to track this reservation.

@return Returns a reference to this object so that method calls can be chained together.

@fluentSetterMethodName "reservationName";

@getterDocumentation "A customer-specified identifier to track this reservation."

@getterModel {
  @returnType "String",
  'documentation': null
}

@http {
   'additionalMarshallingPath': null,
   'additionalUnmarshallingPath': null,
   'flattened': false,
   'greedy': false,
   'header': false,
   'isPayload': false,
   'isStreaming': false,
   'location': null,
   'marshallLocation': "PAYLOAD",
   'marshallLocationName': "ReservationName",
   'queryString': false,
   'statusCode': false,
   'unmarshallLocationName': "ReservationName",
   'uri': false
}

@idempotencyToken false,

@isBinary false,

@jsonValue false,

@list false,

@listModel null,

@map false,

@mapModel null,

'marshallingType': "STRING",

'name': "ReservationName",

'sensitive': false,

@setterDocumentation "A customer-specified identifier to track this reservation."

@setterMethodName "setReservationName",

@setterModel {
   'variableDeclarationType': "String",
   'variableName': "reservationName",
   'variableType': "String"
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
],
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservationName",
  "variableType": "String",
  "documentation": "<p>A customer-specified identifier to track this reservation.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,

"ReservedElasticsearchInstanceOfferingId": {
  "beanStyleGetterMethodName": "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName": "setReservedElasticsearchInstanceOfferingId",
  "c2jName": "ReservedElasticsearchInstanceOfferingId",
  "c2jShape": "GUID",
  "defaultConsumerFluentSetterDocumentation": "<p>The ID of the reserved Elasticsearch instance offering to
purchase.</p>\n\nThis is a convenience that creates an instance of the { @link String.Builder } avoiding
the need to create one manually via { @link String#builder() }.\n\nWhen the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and
its result is passed to { @link #reservedElasticsearchInstanceOfferingId(String) }.
\n@param reservedElasticsearchInstanceOfferingId a consumer that will call
methods on { @link String.Builder }\n@return Returns a reference to this object so that
method calls can be chained together.\n@see #reservedElasticsearchInstanceOfferingId(String)",
  "deprecated": false,
  "documentation": "<p>The ID of the reserved Elasticsearch instance offering to
purchase.</p>\n\n@endpointDiscoveryId" : false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "reservedElasticsearchInstanceOfferingId",
  "fluentSetterDocumentation": "<p>The ID of the reserved Elasticsearch instance offering to
purchase.</p>\n\n@<param reservedElasticsearchInstanceOfferingId The ID of the reserved Elasticsearch instance
offering to purchase.\n@return Returns a reference to this object so that method calls can be chained together.\n","fluentSetterMethodName": "reservedElasticsearchInstanceOfferingId",
  "getterDocumentation": "<p>The ID of the reserved Elasticsearch instance offering to
purchase.</p>\n\n@return The ID of the reserved Elasticsearch instance offering to purchase.\n",
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceOfferingId",
"sensitive" : false,
"setterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>
@param reservedElasticsearchInstanceOfferingId The ID of the reserved Elasticsearch instance offering to purchase.
",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "reservedElasticsearchInstanceOfferingId",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "reservedElasticsearchInstanceOfferingId",
    "variableType" : "String",
    "documentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>
",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
  "c2jName" : "ReservedElasticsearchInstanceOfferingId",
  "c2jShape" : "GUID",
  "defaultConsumerFluentSetterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String.Builder()].
When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #reservedElasticsearchInstanceOfferingId(String)] a consumer that will call methods on [@link String.Builder] return

Returns a reference to this object so that method calls can be chained together.@see #reservedElasticsearchInstanceOfferingId(String)",
  "deprecated" : false,
  "documentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
  "fluentSetterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>
@para reservedElasticsearchInstanceOfferingId The ID of the reserved Elasticsearch instance offering to purchase.
@para return
The ID of the reserved Elasticsearch instance offering to purchase."},
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
    "uri" : false
  },
}
The ID of the reserved Elasticsearch instance offering to purchase.

@see #reservationName(String)

@endpointDiscoveryId

A customer-specified identifier to track this reservation.

@see #reservationName(String)
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterDocumentation" : "<p>A customer-specified identifier to track this reservation.</p>
@param reservationName A customer-specified identifier to track this reservation.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservationName",
"getterDocumentation" : "<p>A customer-specified identifier to track this reservation.</p>
@return A customer-specified identifier to track this reservation.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"sensitive" : false,
"setterDocumentation" : "<p>A customer-specified identifier to track this reservation.</p>
@param reservationName A customer-specified identifier to track this reservation.
@return A customer-specified identifier to track this reservation.",
"setterMethodName" : "setReservationName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservationName",
"returnType" : "String",
"documentation" : null
}
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : "<p>A customer-specified identifier to track this reservation.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getInstanceCount",
  "beanStyleSetterMethodName" : "setInstanceCount",
  "c2jName" : "InstanceCount",
  "c2jShape" : "InstanceCount",
  "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The number of Elasticsearch instances to reserve.&lt;/p&gt;\n\nThis is a convenience that creates an instance of the \{@link Integer.Builder\} avoiding the need to create one manually via \{@link Integer.Builder#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link Integer.Builder#build()\} is called immediately and its result is passed to \{@link #instanceCount(Integer)\}.\n\n@param instanceCount a consumer that will call methods on \{@link Integer.Builder\}\n\n@see #instanceCount(Integer)",
  "deprecated" : false,
  "documentation" : "&lt;p&gt;The number of Elasticsearch instances to reserve.&lt;/p&gt;",
  "enumType" : null,
  "endpointDiscoveryId" : false,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "instanceCount",
  "fluentSetterDocumentation" : "&lt;p&gt;The number of Elasticsearch instances to reserve.&lt;/p&gt;\n\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #instanceCount(Integer)",
  "getterDocumentation" : "&lt;p&gt;The number of Elasticsearch instances to reserve.&lt;/p&gt;\n\n\n@return The number of Elasticsearch instances to reserve."
},
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceCount",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "InstanceCount",
"simple" : true,
"setterDocumentation" : "<p>The number of Elasticsearch instances to reserve.
\n@param instanceCount The number of Elasticsearch instances to reserve.
</p>",
"setterMethodName" : "setInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of Elasticsearch instances to reserve.
</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}].
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "ReservedElasticsearchInstanceOfferingId", "ReservationName" ],
"shapeName": "PurchaseReservedElasticsearchInstanceOfferingRequest",
"simpleMethod": false,
"unmarshaller": null,
"variable": {
"variableDeclarationType": "PurchaseReservedElasticsearchInstanceOfferingRequest",
"variableName": "purchaseReservedElasticsearchInstanceOfferingRequest",
"variableType": "PurchaseReservedElasticsearchInstanceOfferingRequest",
"documentation": null,
"simpleType": "PurchaseReservedElasticsearchInstanceOfferingRequest",
"variableSetterType": "PurchaseReservedElasticsearchInstanceOfferingRequest"
},
"wrapper": false},
"PurchaseReservedElasticsearchInstanceOfferingResponse": {
"c2jName": "PurchaseReservedElasticsearchInstanceOfferingResponse",
"customization": {
"artificialResultWrapper": null,
"skipGeneratingMarshaller": false,
"skipGeneratingModelClass": false,
"skipGeneratingUnmarshaller": false,
"staxTargetDepthOffset": 0
},
"deprecated": false,
"documentation": "<p>Represents the output of a
<code>PurchaseReservedElasticsearchInstanceOffering</code> operation.</p>",
"endpointDiscovery": null,
"enums": null,
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [ {
"beanStyleGetterMethodName": "getReservedElasticsearchInstanceId",
"beanStyleSetterMethodName": "setReservedElasticsearchInstanceId",
"c2jName": "ReservedElasticsearchInstanceId",
"c2jShape": "GUID",
"defaultConstructorFluentSetterDocumentation": "<p>Details of the reserved Elasticsearch instance which was purchased.</p>"},

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.

When the {@link Consumer} completes, {@link

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String.Builder#build()} is called immediately and its result is passed to {@link
reservedElasticsearchInstanceId(String)}.\n\n@param reservedElasticsearchInstanceId a consumer that will call
methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained
together.\n\n@see reservedElasticsearchInstanceId(String)\n"deprecated" : false,
"documentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>
@return Details of the reserved Elasticsearch instance which was purchased.\n\n@see reservedElasticsearchInstanceId(String)\n"fluentSetterMethodName" : "reservedElasticsearchInstanceId",
"getterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>
@return Details of the reserved Elasticsearch instance which was purchased.\n\n@see reservedElasticsearchInstanceId(String)\n"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstanceId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstanceId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId"
"sensitive": false,
"setterDocumentation": "<p>Details of the reserved Elasticsearch instance which was purchased.</p>
@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.",
"setterMethodName": "setReservedElasticsearchInstanceId",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "reservedElasticsearchInstanceId",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "reservedElasticsearchInstanceId",
"variableType": "String",
"documentation": "<p>Details of the reserved Elasticsearch instance which was purchased.</p>
@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"beanStyleGetterMethodName": "getReservationName",
"beanStyleSetterMethodName": "setReservationName",
"c2jName": "ReservationName",
"c2jShape": "ReservationToken",
"defaultConsumerFluentSetterDocumentation": "<p>The customer-specified identifier used to track this reservation.</p>
This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }.
When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #reservationName(String) }.
@param reservationName a consumer that will call methods on { @link String.Builder }.
@returns value Returns a reference to this object so that method calls can be chained together.
@see #reservationName(String)",
"deprecated": false,
"documentation": "<p>The customer-specified identifier used to track this reservation.</p>
@endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "reservationName",
"fluentSetterDocumentation": "<p>The customer-specified identifier used to track this reservation.</p>
@param reservationName The customer-specified identifier used to track this reservation.
@returns value Returns a reference to this object so that method calls can be chained together.".
"fluentSetterMethodName" : "setReservationName",
"setterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
@param reservationName The customer-specified identifier used to track this reservation.",
"setterMethodName" : "setReservationName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservationName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"idempotencyToken" : false,
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"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"sensitive" : false,
"setterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
@param reservationName The customer-specified identifier used to track this reservation.",
"setterMethodName" : "setReservationName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservationName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"}
"variableName" : "reservationName",
"variableType" : "String",
"documentation" : "The customer-specified identifier used to track this reservation.\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually \nvia \n{@link String#builder()}. When the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #reservationName(String)}.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see \n#reservationName(String)",
"deprecated" : false,
"documentation" : "The customer-specified identifier used to track this reservation.\n\nThe customer-specified identifier used to track this reservation.\n\n@return Returns a reference to this object so that method calls can be chained together.
\n@see \n#reservationName(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
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"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "ReservationName",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ReservationName",
"uri": false
",
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"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservationName",
"sensitive": false,
"setterDocumentation": "<p>The customer-specified identifier used to track this reservation.</p>
@param reservationName The customer-specified identifier used to track this reservation.",
"setterMethodName": "setReservationName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "reservationName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservationName",
  "variableType": "String",
  "documentation": "<p>The customer-specified identifier used to track this reservation.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlnsNamespaceUri": null
",
"ReservedElasticsearchInstanceId": {
  "beanStyleGetterMethodName": "getReservedElasticsearchInstanceId",
  "beanStyleSetterMethodName": "setReservedElasticsearchInstanceId",
  "c2jName": "ReservedElasticsearchInstanceId",
  "c2jShape": "GUID",
  "defaultConsumerFluentSetterDocumentation": "<p>Details of the reserved Elasticsearch instance which was purchased.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to
create one manually via `@link String#builder()`.

When the `@link Consumer` completes, `@link String.Builder#build()` is called immediately and its result is passed to `@link #reservedElasticsearchInstanceId(String)`.

```java
@Param reservedElasticsearchInstanceId a consumer that will call
methods on `@link String.Builder`
@return Returns a reference to this object so that method calls can be chained
together.
@see #reservedElasticsearchInstanceId(String)
```

```
"deprecated" : false,
"documentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>\n@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.\n@return Returns a reference to this object so that method calls can be chained together."",
"fluentSetterMethodName" : "reservedElasticsearchInstanceId",
"getterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>\n@return Details of the reserved Elasticsearch instance which was purchased.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
```
"name" : "ReservedElasticsearchInstanceId",
"setterDocumentation" : "Details of the reserved Elasticsearch instance which was purchased.

@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.

"setterMethodName" : "setReservedElasticsearchInstanceId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : "Details of the reserved Elasticsearch instance which was purchased.

@param reservedElasticsearchInstanceId a consumer that will call methods on
@return Returns a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceId(String)
"}
}

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
  "c2jName" : "ReservedElasticsearchInstanceId",
  "c2jShape" : "GUID",
  "defaultConsumerFluentSetterDocumentation" : "Details of the reserved Elasticsearch instance which was purchased.

@param reservedElasticsearchInstanceId a consumer that will call methods on
@return Returns a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceId(String)
"}
}
"fluentSetterDocumentation" : "Details of the reserved Elasticsearch instance which was purchased.\n@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservedElasticsearchInstanceId",
"getterDocumentation" : "Details of the reserved Elasticsearch instance which was purchased.\n@return Details of the reserved Elasticsearch instance which was purchased.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstanceId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstanceId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"sensitive" : false,
"setterDocumentation" : "Details of the reserved Elasticsearch instance which was purchased.\n@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.\n",
"setterMethodName" : "setReservedElasticsearchInstanceId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getReservationName",
"beanStyleSetterMethodName" : "setReservationName",
"c2jName" : "ReservationName",
"c2jShape" : "ReservationToken",
"defaultConsumerFluentSetterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}.\n\nWhen the {@link Consumer} completes, the consumer that will call methods on a builder will be passed to the completion method of the consumer. \n\n@see #reservationName(String)"
,
  "deprecated" : false,
  "documentation" : "<p>The customer-specified identifier used to track this reservation.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservationName",
  "fluentSetterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>\n\n@param reservationName The customer-specified identifier used to track this reservation.\n\n@return Returns a reference to this object so that method calls can be chained together.",
  "getterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>\n\n@see #reservationName(String)"
,
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "interface" : null,
    "interfaceVersion" : null,
    "marshaller" : null,
    "messageComponentType" : null,
    "messageVersion" : null,
    "multivalued" : false,
    "name" : "ReservationName",
    "payload成员" : null,
    "readerMethod" : null,
    "readerType" : null,
    "serviceOperationTarget" : null,
    "shapes" : null,
    "type" : null,
    "unmarshaller" : null,
    "updateable" : false,
    "wrapped" : false
  },
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : "<p>The customer-specified identifier used to track this reservation.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
}
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"sensitive" : false,
"setterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
@param reservationName The customer-specified identifier used to track this reservation.",
"setterMethodName" : "setReservationName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : "<p>The customer-specified identifier used to track this reservation.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} ];
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "PurchaseReservedElasticsearchInstanceOfferingResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "PurchaseReservedElasticsearchInstanceOfferingResponse",
  "variableName" : "purchaseReservedElasticsearchInstanceOfferingResponse",
  "variableType" : "PurchaseReservedElasticsearchInstanceOfferingResponse",
  "documentation" : null,
  "simpleType" : "PurchaseReservedElasticsearchInstanceOfferingResponse",
  "variableSetterType" : "PurchaseReservedElasticsearchInstanceOfferingResponse"
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"wrapper" : false,
"RecurringCharge" : {
  "c2jName" : "RecurringCharge",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Contains the specific price and frequency of a recurring charge for a reserved Elasticsearch instance, or for a reserved Elasticsearch instance offering.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [
    {"beanStyleGetterMethodName" : "getRecurringChargeAmount",
     "beanStyleSetterMethodName" : "setRecurringChargeAmount",
     "c2jName" : "RecurringChargeAmount",
     "c2jShape" : "Double",
     "defaultConsumerFluentSetterDocumentation" : "<p>The monetary amount of the recurring charge. This is a convenience that creates an instance of the {@link Double.Builder} avoiding the need to create one manually via {@link Double.Builder()}. When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to {@link #recurringChargeAmount(Double)}.\n\n@param recurringChargeAmount a consumer that will call methods on \n{@link Double.Builder}\n\n@return Returns a number representing the monetary amount of the recurring charge.\n</p>"}]
},
"RecurringChargeAmount" : {
  "c2jName" : "RecurringChargeAmount",
  "c2jShape" : "Double",
  "defaultConsumerFluentSetterDocumentation" : "<p>The monetary amount of the recurring charge. This is a convenience that creates an instance of the {@link Double.Builder} avoiding the need to create one manually via {@link Double.Builder()}. When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to {@link #recurringChargeAmount(Double)}.\n\n@param recurringChargeAmount a consumer that will call methods on \n{@link Double.Builder}\n\n@return Returns a number representing the monetary amount of the recurring charge.\n</p>"}
reference to this object so that method calls can be chained together.
@see #recurringChargeAmount(Double)

"deprecated" : false,
"documentation" : "<p>The monetary amount of the recurring charge.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringChargeAmount",
"fluentSetterDocumentation" : "<p>The monetary amount of the recurring charge.</p>
@param recurringChargeAmount The monetary amount of the recurring charge.
@return Returns a reference to this object so that method calls can be chained together.
", 
"getterDocumentation" : "<p>The monetary amount of the recurring charge.</p>
@return The monetary amount of the recurring charge.
", 
"getterModel" : {
  "returnType" : "Double",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "RecurringChargeAmount",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "RecurringChargeAmount",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "RecurringChargeAmount",
"sensitive" : false,
"setterDocumentation" : "<p>The monetary amount of the recurring charge.</p>
@param recurringChargeAmount The monetary amount of the recurring charge.
"
"setterMethodName" : "setRecurringChargeAmount",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "recurringChargeAmount",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "recurringChargeAmount",
  "variableType" : "Double",
  "documentation" : "The monetary amount of the recurring charge.",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
  "beanStyleGetterMethodName" : "getRecurringChargeFrequency",
  "beanStyleSetterMethodName" : "setRecurringChargeFrequency",
  "c2jName" : "RecurringChargeFrequency",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "The frequency of the recurring charge.
This is a convenience that creates an instance of the { String.Builder } avoiding the need to create one manually via { String.Builder#build() }. When the { Consumer } completes, { String.Builder#build() } is called immediately and its result is passed to { #recurringChargeFrequency(String) }.
@param recurringChargeFrequency a consumer that will call methods on { String.Builder }.
@return Returns a reference to this object so that method calls can be chained together.
@see #recurringChargeFrequency(String)
" deprecated" : false,
  "documentation" : "The frequency of the recurring charge.",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "recurringChargeFrequency",
  "fluentSetterDocumentation" : "The frequency of the recurring charge.
@param recurringChargeFrequency The frequency of the recurring charge.
@return Returns a reference to this object so that method calls can be chained together.
" fluentSetterMethodName" : "recurringChargeFrequency",
  "getterDocumentation" : "The frequency of the recurring charge.
@return The frequency of the recurring charge.
" getterModel" : {
  "returnType" : "String",
}
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RecurringChargeFrequency",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RecurringChargeFrequency",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "RecurringChargeFrequency",
"sensitive" : false,
"setterDocumentation" : "<p>The frequency of the recurring charge.</p>
@param recurringChargeFrequency
The frequency of the recurring charge.
</p>@param recurringChargeFrequency
setRecurringChargeFrequency",
"setterMethodName" : "setRecurringChargeFrequency",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "recurringChargeFrequency",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "recurringChargeFrequency",
"variableType" : "String",
"documentation" : "<p>The frequency of the recurring charge.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
The monetary amount of the recurring charge.

This is a convenience that creates an instance of the {Double.Builder} avoiding the need to create one manually via {Double#builder()}. When the {Consumer} completes, {Double.Builder#build()} is called immediately and its result is passed to {recurringChargeAmount(Double)}.

@deprecated

@return

@see

The monetary amount of the recurring charge.

The monetary amount of the recurring charge.

The monetary amount of the recurring charge.

The monetary amount of the recurring charge.

The monetary amount of the recurring charge.

The monetary amount of the recurring charge.
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "RecurringChargeAmount",
"sensitive" : false,
"setterDocumentation" : "<p>The monetary amount of the recurring charge.</p>\n@param recurringChargeAmount The monetary amount of the recurring charge."
,"setterMethodName" : "setRecurringChargeAmount",
"setterModel" : {
"variableDeclarationType" : "Double",
"variableName" : "recurringChargeAmount",
"variableType" : "Double",
"documentation" : null,
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Double",
"variableName" : "recurringChargeAmount",
"variableType" : "Double",
"documentation" : "<p>The monetary amount of the recurring charge.</p>",
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
"RecurringChargeFrequency" : {
"beanStyleGetterMethodName" : "getRecurringChargeFrequency",
"beanStyleSetterMethodName" : "setRecurringChargeFrequency",
"c2jName" : "RecurringChargeFrequency",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The frequency of the recurring charge.</p>\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via
[@link String#builder()].\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link recurringChargeFrequency(String)].\n@param recurringChargeFrequency a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #recurringChargeFrequency(String)",
"deprecated" : false,
"documentation" : "<p>The frequency of the recurring charge.</p>"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringChargeFrequency",
"fluentSetterMethodName" : "setRecurringChargeFrequency",
"getterDocumentation" : "<p>The frequency of the recurring charge.</p>@return The frequency of the recurring charge.",

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "RecurringChargeFrequency",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "RecurringChargeFrequency",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "RecurringChargeFrequency",
"sensitive" : false,
"setterDocumentation" : "<p>The frequency of the recurring charge.</p>@param recurringChargeFrequency The frequency of the recurring charge.

"setterMethodName" : "setRecurringChargeFrequency",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "recurringChargeFrequency",
  "setterName" : "setRecurringChargeFrequency",
  "setterReturn" : null
}
"variableName" : "recurringChargeFrequency",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "recurringChargeFrequency",
"variableType" : "String",
"documentation" : "<p>The frequency of the recurring charge.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getRecurringChargeAmount",
"beanStyleSetterMethodName" : "setRecurringChargeAmount",
"c2jName" : "RecurringChargeAmount",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "<p>The monetary amount of the recurring charge.</p>
This is a convenience that creates an instance of the { @link Double.Builder} avoiding the need to create one manually
via { @link Double#builder()}.
When the { @link Consumer} completes, { @link Double.Builder#build()} is
called immediately and its result is passed to { @link #recurringChargeAmount(Double)}.\n@param recurringChargeAmount a consumer that will call methods on { @link Double.Builder}.
@returns Returns a reference to this object so that method calls can be chained together.\n@see #recurringChargeAmount(Double)",
"deprecated" : false,
"documentation" : "<p>The monetary amount of the recurring charge.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringChargeAmount",
"fluentSetterDocumentation" : "<p>The monetary amount of the recurring charge.</p>
@param recurringChargeAmount The monetary amount of the recurring charge.\n@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "recurringChargeAmount",
"getterDocumentation" : "<p>The monetary amount of the recurring charge.</p>
@returns The monetary amount of the recurring charge.",
"getterModel" : {
"returnType" : "Double",
"documentation" : null
"eventPayload" : false,
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "RecurringChargeAmount",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "RecurringChargeAmount",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "DOUBLE",
"name": "RecurringChargeAmount",
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Double",
  "variableName": "recurringChargeAmount",
  "variableType": "Double",
  "documentation": null,
  "simpleType": "Double",
  "variableSetterType": "Double"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Double",
  "variableName": "recurringChargeAmount",
  "variableType": "Double",
  "documentation": "<p>The monetary amount of the recurring charge.</p>\n@\param recurringChargeAmount The monetary amount of the recurring charge.",
  "setterMethodName": "setRecurringChargeAmount",
  "setterModel": {
    "variableDeclarationType": "Double",
    "variableName": "recurringChargeAmount",
    "variableType": "Double",
    "documentation": null,
    "simpleType": "Double",
    "variableSetterType": "Double"
  },
  "simple": true,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "Double",
    "variableName": "recurringChargeAmount",
    "variableType": "Double",
    "documentation": "<p>The monetary amount of the recurring charge.</p>\n@\param recurringChargeAmount The monetary amount of the recurring charge.",
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getRecurringChargeFrequency",
"beanStyleSetterMethodName" : "setRecurringChargeFrequency",
"c2jName" : "RecurringChargeFrequency",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The frequency of the recurring charge.</p>
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via
[link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link recurringChargeFrequency(String)]

@returns a reference to this object so that method calls can be chained together.
@see recurringChargeFrequency(String)",
"deprecated" : false,
"documentation" : "<p>The frequency of the recurring charge.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringChargeFrequency",
"fluentSetterDocumentation" : "<p>The frequency of the recurring charge.</p>
@param recurringChargeFrequency The frequency of the recurring charge.
@returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "recurringChargeFrequency",
"getterDocumentation" : "<p>The frequency of the recurring charge.</p>
@returns The frequency of the recurring charge.
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RecurringChargeFrequency",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RecurringChargeFrequency",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "RecurringChargeFrequency",
"sensitive" : false,
"setterDocumentation" : "<p>The frequency of the recurring charge.</p>
@param recurringChargeFrequency
The frequency of the recurring charge.
"setterMethodName" : "setRecurringChargeFrequency",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "recurringChargeFrequency",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "recurringChargeFrequency",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}]
,"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "RecurringCharge",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "recurringCharge",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
Container for the parameters to the <code>RemoveTags</code> operation. Specify the <code>ARN</code> for the Elasticsearch domain from which you want to remove the specified <code>TagKey</code>.

This is a convenience that creates an instance of the <code>String.Builder</code> avoiding the need to create one manually via <code>@link String#builder()</code>. When the <code>@link Consumer</code> completes, <code>@link String.Builder#build()</code> is called immediately and its result is passed to <code>@link #arn(String)</code>. Returns a reference to this object so that method calls can be chained together.

```java
public @Nonnull RemoveTagsRequest(Consumer<? super String.Builder> consumer)
```

@deprecated

Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.
delete the specified tags.</p>
            "endpointDiscoveryId" : false,
            "enumType" : null,
            "eventHeader" : false,
            "eventPayload" : false,
            "fluentEnumGetterMethodName" : null,
            "fluentEnumSetterMethodName" : null,
            "fluentGetterMethodName" : "arn",
            "fluentSetterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p><p>@param arn Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p><p>@return Returns a reference to this object so that method calls can be chained together.".
            "fluentSetterMethodName" : "arn",
            "getterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p><p>@return Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.
            
            "getterModel" : {
                "returnType" : "String",
                "documentation" : null
            },

            "http" : {
                "additionalMarshallingPath" : null,
                "additionalUnmarshallingPath" : null,
                "flattened" : false,
                "greedy" : false,
                "header" : false,
                "isPayload" : false,
                "isStreaming" : false,
                "location" : null,
                "marshallLocation" : "PAYLOAD",
                "marshallLocationName" : "ARN",
                "queryString" : false,
                "statusCode" : false,
                "unmarshallLocationName" : "ARN",
                "uri" : false
            },
            "idempotencyToken" : false,
            "isBinary" : false,
            "jsonValue" : false,
            "list" : false,
            "listModel" : null,
            "map" : false,
            "mapModel" : null,
            "marshallingType" : "STRING",
            "name" : "ARN",
            "sensitive" : false,
            "setterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p><p>@param arn Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p><p>@return Returns a reference to this object so that method calls can be chained together.".
            "setterMethodName" : "arn",
            "setterModel" : {
                "returnType" : "String",
                "documentation" : null
            }
        }
    },
from which you want to delete the specified tags.

    "setterMethodName" : "setArn",
    "setterModel" : {
        "variableDeclarationType" : "String",
        "variableName" : "arn",
        "variableType" : "String",
        "documentation" : null,
        "simpleType" : "String",
        "variableSetterType" : "String"
    },
    "simple" : true,
    "timestampFormat" : null,
    "variable" : {
        "variableDeclarationType" : "String",
        "variableName" : "arn",
        "variableType" : "String",
        "documentation" : <p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
    },
    "xmlNameSpaceUri" : null
},
{
    "beanStyleGetterMethodName" : "getTagKeys",
    "beanStyleSetterMethodName" : "setTagKeys",
    "c2jName" : "TagKeys",
    "c2jShape" : "StringList",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
    "deprecated" : false,
    "documentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagKeys",
"fluentSetterDocumentation" : <p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
"@param tagKeys Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain."}
"fluentSetterMethodName" : "tagKeys",
"getterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p><p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p><p>@return Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.",
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TagKeys",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TagKeys",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String.Builder\}.\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #member(String)\}.\n\n@throws ConsumerException\n@link #member(String)\n\n@param member a consumer to call which will call methods on \{@link String.Builder\}\n@link #member(String)\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)"
,"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
}
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "TagKeys",
"sensitive": false,
"setterDocumentation": "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
@param tagKeys Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.",
"setterMethodName": "setTagKeys",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "tagKeys",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "tagKeys",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
}
"documentation": "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>",
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
},
"membersAsMap": {
"ARN": {
"beanStyleGetterMethodName": "getArn",
"beanStyleSetterMethodName": "setArn",
"c2jName": "ARN",
"c2jShape": "ARN",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #arn(String)}.<br />
@see #arn(String)",
"deprecated": false,
"documentation": "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "arn",
"fluentSetterDocumentation": "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>

Parameters:

- <code>arn</code>: Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.

- Returns a reference to this object so that method calls can be chained together.".,
"getterDocumentation": "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>

Parameters:

- <code>arn</code>: Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.

- Returns a reference to this object so that method calls can be chained together.".,
"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ARN",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ARN",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you
want to delete the specified tags.</p><p>@param arn Specifies the <code>ARN</code> for the Elasticsearch domain
from which you want to delete the specified tags.,

"setterMethodName" : "setArn",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "arn",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "arn",
"variableType" : "String",
"documentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want
to delete the specified tags.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"TagKeys" : {
"beanStyleGetterMethodName" : "getTagKeys",
"beanStyleSetterMethodName" : "setTagKeys",
"c2jName" : "TagKeys",
"list" : false,
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>

This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the [{@link Consumer} completes, the result is passed to [{@link #tagKeys(List<String>)}, see #tagKeys(List<String>)].

@return Returns a reference to this object so that method calls can be chained together.

@see #tagKeys(List<String>)

"deprecated" : false,

"documentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>

@endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "tagKeys",

"fluentSetterMethodName" : null,

"getterDocumentation" : "<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>

@return Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.

idempotencyToken" : false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
    "implType": "java.util.ArrayList",
    "interfaceType": "java.util.List",
    "listMemberModel": {
        "beanStyleGetterMethodName": "getMember",
        "beanStyleSetterMethodName": "setMember",
        "c2jName": "member",
        "c2jShape": "String",
        "defaultValueConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].\n\n@param member a consumer that will call methods on [@link String.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
    "deprecated": false,
    "documentation": "",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "member",
    "fluentSetterMethodName": "member",
    "fluentSetterDocumentation": "Sets the value of the Member property for this object.\n\n@see #member(String)",
    "getterModel": {
        "returnType": "String",
        "documentation": null
    },
    "http": {
        "additionalMarshallingPath": null,
        "additionalUnmarshallingPath": null,
        "flattened": false,
        "greedy": false,
        "header": false,
        "isPayload": false,
        "isStreaming": false,
        "location": null,
        "marshallLocation": "PAYLOAD",
        "marshallLocationName": "member",
        "queryString": false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagKeys",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the
Elasticsearch domain.

@param tagKeys Specifies the <code>TagKey</code> list which you want to remove
from the Elasticsearch domain."

"setterMethodName" : "setTagKeys",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "tagKeys",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "tagKeys",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the
Elasticsearch domain."
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ { "beanStyleGetterMethodName" : "getArn",
  "beanStyleSetterMethodName" : "setArn",
  "c2jName" : "ARN",
  "c2jShape" : "ARN",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch
domain from which you want to delete the specified tags."

This is a convenience that creates an instance of the
{@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the
{@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to
{@link #arn(String)}.

@see #arn(String)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want
to delete the specified tags.

endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>\n@param arn Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "arn",
"getterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>\n@return Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ARN",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ARN",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>\n@param arn Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.",
"setterMethodName" : "setArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn"}
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getTagKeys",
"beanStyleSetterMethodName" : "setTagKeys",
"c2jName" : "TagKeys",
"c2jShape" : "StringList",
"defaultValueFluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain. This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the consumer completes, the builder is called immediately and its result is passed to the consumer a consumer that will call methods on the builder. When the consumer returns a reference to this object so that method calls can be chained together. See #tagKeys(List<String>)."
,  "deprecated" : false,
  "documentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagKeys",
"fluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
@param tagKeys Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "tagKeys",
"getterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
@returns 
@see #tagKeys(List<String>)"
"getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "TagKeys",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "TagKeys",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : true,
  "listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "c2jShape" : "String",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder()]. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [String#member(String)].

@param member a consumer that will call methods on [String.Builder]
@return Returns a reference to this object so that method calls can be chained together.

@see #member(String)",
      "deprecated" : false,
      "documentation" : "",
      "endpointDiscoveryId" : false,
      "enumType" : null,
      "eventHeader" : false,
      "eventPayload" : false,
      "fluentEnumGetterMethodName" : null,
      "fluentEnumSetterMethodName" : null,
      "fluentGetterMethodName" : "member",
      "fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@see #member(String)"
```
The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "TagKeys",
"sensitive": false,
"setterDocumentation": "<p>Specifies the &lt;code&gt;TagKey&lt;/code&gt; list which you want to remove from the Elasticsearch domain.</p>
@param tagKeys Specifies the &lt;code&gt;TagKey&lt;/code&gt; list which you want to remove from the Elasticsearch domain.",
"setterMethodName": "setTagKeys",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "tagKeys",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "tagKeys",
  "variableType": "java.util.List<String>",
  "documentation": "<p>Specifies the &lt;code&gt;TagKey&lt;/code&gt; list which you want to remove from the Elasticsearch domain.</p>",
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
}
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "ARN", "TagKeys" ],
"shapeName" : "RemoveTagsRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "RemoveTagsRequest",
  "variableName" : "removeTagsRequest",
  "variableType" : "RemoveTagsRequest",
  "documentation" : null,
  "simpleType" : "RemoveTagsRequest",
  "variableSetterType" : "RemoveTagsRequest"
},
"wrapper" : false
},
"RemoveTagsResponse" : {
  "c2jName" : "RemoveTagsResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : null,
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "marshaller" : null,
  "members" : [ ],
  "membersAsMap" : { },
  "nonStreamingMembers" : [ ],
  "requestSignerAware" : false,
  "requestSignerClassFqcn" : null,
  "required" : null,
  "shapeName" : "RemoveTagsResponse"}
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "RemoveTagsResponse",
  "variableName": "removeTagsResponse",
  "variableType": "RemoveTagsResponse",
  "documentation": null,
  "simpleType": "RemoveTagsResponse",
  "variableSetterType": "RemoveTagsResponse"
},
"wrapper": false
},
"ReservedElasticsearchInstance": {
  "c2jName": "ReservedElasticsearchInstance",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "Details of a reserved Elasticsearch instance.",
  "endpointDiscovery": null,
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": null,
  "marshalller": null,
  "members": [
    "beanStyleGetterMethodName": "getReservationName",
    "beanStyleSetterMethodName": "setReservationName",
    "c2jName": "ReservationName",
    "c2jShape": "ReservationToken",
    "defaultConsumerFluentSetterDocumentation": "The customer-specified identifier to track this reservation."
  ],
  "this": null
}
String.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see #reservationName(String)
"deprecated" : false,
"documentation" : "<p>The customer-specified identifier to track this reservation.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterDocumentation" : "<p>The customer-specified identifier to track this reservation.</p>
@param reservationName The customer-specified identifier to track this reservation.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservationName",
"getterDocumentation" : "<p>The customer-specified identifier to track this reservation.</p>
@return The customer-specified identifier to track this reservation.
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"sensitive" : false,
"setterDocumentation" : "<p>The customer-specified identifier to track this reservation.</p>
@param
reservationName: The customer-specified identifier to track this reservation.

setterMethodName: "setReservationName",
setterModel: {
  variableDeclarationType: "String",
  variableName: "reservationName",
  variableType: "String",
  documentation: null,
  simpleType: "String",
  variableSetterType: "String"
},
simple: true,
timestampFormat: null,
variable: {
  variableDeclarationType: "String",
  variableName: "reservationName",
  variableType: "String",
  documentation: "The customer-specified identifier to track this reservation.",
  simpleType: "String",
  variableSetterType: "String"
},
xmlNameSpaceUri: null,

beanStyleGetterMethodName: "getReservedElasticsearchInstanceId",
beanStyleSetterMethodName: "setReservedElasticsearchInstanceId",
c2jName: "ReservedElasticsearchInstanceId",
c2jShape: "GUID",

defaultConsumerFluentSetterDocumentation: "The unique identifier for the reservation.
This is a convenience that creates an instance of the @link String.Builder avoiding the need to create one manually via @link String#builder().
When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #reservedElasticsearchInstanceId(String).

@see #reservedElasticsearchInstanceId(String)",
deprecated: false,
documentation: "The unique identifier for the reservation.",
derivedType: "null",
enumType: null,
eventHeader: false,

endpointDiscoveryId: false,
enumType: null,

eventPayload: false,

fluuentEnumGetterMethodName: null,
fluuentEnumSetterMethodName: null,
fluuentGetterMethodName: "reservedElasticsearchInstanceId",

fluuentSetterDocumentation: "The unique identifier for the reservation.

@see #reservedElasticsearchInstanceId(String)",
deprecated: false,
documentation: "The unique identifier for the reservation.

@see #reservedElasticsearchInstanceId(String)",

reservedElasticsearchInstanceId: The unique identifier for the reservation.

@return Returns a reference to this object so that method calls can be chained together.

@see #reservedElasticsearchInstanceId(String)"
"getterModel": {
   "returnType": "String",
   "documentation": null
},
"http": {
   "additionalMarshallingPath": null,
   "additionalUnmarshallingPath": null,
   "flattened": false,
   "greedy": false,
   "header": false,
   "isPayload": false,
   "isStreaming": false,
   "location": null,
   "marshallLocation": "PAYLOAD",
   "marshallLocationName": "ReservedElasticsearchInstanceId",
   "queryString": false,
   "statusCode": false,
   "unmarshallLocationName": "ReservedElasticsearchInstanceId",
   "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservedElasticsearchInstanceId",
"sensitive": false,
"setterDocumentation": "<p>The unique identifier for the reservation.</p>\n@param reservedElasticsearchInstanceId The unique identifier for the reservation.",
"setterMethodName": "setReservedElasticsearchInstanceId",
"setterModel": {
   "variableDeclarationType": "String",
   "variableName": "reservedElasticsearchInstanceId",
   "variableType": "String",
   "documentation": null,
   "simpleType": "String",
   "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
   "variableDeclarationType": "String",
   "variableName": "reservedElasticsearchInstanceId",
   "variableType": "String",
   "documentation": "<p>The unique identifier for the reservation.</p>"
"simpleType" : "String",
"variableSetterType" : "String"

"xmlNameSpaceUri" : null,

"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"c2jName" : "ReservedElasticsearchInstanceOfferingId",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "The offering identifier.
This is a convenience that create an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link String#builder()]. When the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #reservedElasticsearchInstanceOfferingId(String)].

@param reservedElasticsearchInstanceOfferingId a consumer that will call methods on [ @link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.

@see #reservedElasticsearchInstanceOfferingId(String)",
"deprecated" : false,
"documentation" : "The offering identifier.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "The offering identifier.
@param reservedElasticsearchInstanceOfferingId The offering identifier.
@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"getterDocumentation" : "The offering identifier.
@return The offering identifier.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId"
The offering identifier.

The Elasticsearch instance type offered by the reserved instance offering.

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder()

When the Consumer completes, String.Builder#build() is called immediately and its result is passed to ElasticsearchInstanceType

returns a reference to this object so that method calls can be chained together.

The Elasticsearch instance type offered by the reserved instance offering.
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceType",
"fluentEnumSetterMethodName" : "elasticsearchInstanceType",
"fluentGetterMethodName" : "elasticsearchInstanceTypeAsString",
"fluentSetterDocumentation" : "The Elasticsearch instance type offered by the reserved instance offering."}@see ESPartitionInstanceType
@returns Returns a reference to this object so that method calls can be chained together."}@see ESPartitionInstanceType",
"fluentSetterMethodName" : "elasticsearchInstanceType",
"getterDocumentation" : "The Elasticsearch instance type offered by the reserved instance offering."
If the service returns an enum value that is not available in the current SDK version, [ @link #elasticsearchInstanceType ] will return [ @link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION ].
The raw value returned by the service is available from [ @link #elasticsearchInstanceTypeAsString ].
@returns The Elasticsearch instance type offered by the reserved instance offering."}@see ESPartitionInstanceType",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchInstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchInstanceType",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchInstanceType",
"sensitive" : false,
"setterDocumentation": "<p>The Elasticsearch instance type offered by the reserved instance offering.<\/p>@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.<\/p>@see ESPartitionInstanceType",
"setterMethodName": "setElasticsearchInstanceType",
"setterModel": {
    "variableDeclarationType": "String",
    "variableName": "elasticsearchInstanceType",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "String",
    "variableName": "elasticsearchInstanceType",
    "variableType": "String",
    "documentation": "<p>The Elasticsearch instance type offered by the reserved instance offering.<\/p>",
    "simpleType": "String",
    "variableSetterType": "String"
},
"xmlNameSpaceUri": null,

"defaultConsumerFluentSetterDocumentation": "<p>The time the reservation started.<\/p>\n\nThis is a convenience that creates an instance of the [@link Instant.Builder] avoiding the need to create one manually via [@link Instant.Builder(\)].\n\nWhen the [@link Consumer] completes, [@link Instant.Builder\#build()\)] is called immediately and its result is passed to [@link #startTime(Instant)\)].\n\n@param startTime a consumer that will call methods on [@link Instant.Builder\]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #startTime(Instant)\n",
"deprecated": false,
"documentation": "<p>The time the reservation started.<\/p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "startTime",
"fluentSetterDocumentation": "<p>The time the reservation started.<\/p>\n\n@param startTime The time the reservation started.\n@return Returns a reference to this object so that method calls can be chained together.,\n@see #startTime(Instant)\n",
"getterDocumentation": "<p>The time the reservation started.<\/p>\n@return The time the reservation started.,\n@see #startTime(Instant)\n",
"getterModel": {
"returnType" : "java.time.Instant",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "startTime",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "startTime",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "startTime",
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.time.Instant",
"variableName" : "startTime",
"variableType" : "java.time.Instant",
"documentation" : null,
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"simple" : true,
"setterDocumentation" : "The time the reservation started."
.setterMethodName" : "setStartTime",
"setterModel" : {
"variableDeclarationType" : "java.time.Instant",
"variableName" : "startTime",
"variableType" : "java.time.Instant",
"documentation" : null,
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"simple": true,
"setterDocumentation" : "The time the reservation started."}
"variableSetterType" : "java.time.Instant",
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getDuration",
"beanStyleSetterMethodName" : "setDuration",
"c2jName" : "Duration",
"c2jShape" : "Integer",
"defaultConsumerFluentSetterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer#builder()]. When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link #duration(Integer)].

@param duration a consumer that will call methods on [@link Integer.Builder]
@returns Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "duration",
"fluentSetterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>
@returns The duration, in seconds, for which the Elasticsearch instance is reserved.
@returns Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "duration",
"getterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>
@returns The duration, in seconds, for which the Elasticsearch instance is reserved.
",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Duration",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Duration",
"uri" : false
"setterDocumentation": "The duration, in seconds, for which the Elasticsearch instance is reserved.
@param duration The duration, in seconds, for which the Elasticsearch instance is reserved.
"setterMethodName": "setDuration",
"setterModel": {
"variableDeclarationType": "Integer",
"variableName": "duration",
"variableType": "Integer",
"documentation": null,
"simpleType": "Integer",
"variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "Integer",
"variableName": "duration",
"variableType": "Integer",
"documentation": "The duration, in seconds, for which the Elasticsearch instance is reserved.
"simpleType": "Integer",
"variableSetterType": "Integer"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getFixedPrice",
"beanStyleSetterMethodName": "setFixedPrice",
"c2jName": "FixedPrice",
"c2jShape": "Double",
"defaultConsumerFluentSetterDocumentation": "The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. 
This is a convenience that creates an instance of the { @link Double.Builder } avoiding the need to create one manually via { @link Double#builder() }. 
When the { @link Consumer } completes, { @link Double.Builder#build() } is called immediately and its result is passed to { @link #fixedPrice(Double) }. 

Returns a reference to this object so that method calls can be chained together.

@see #fixedPrice(Double)",
"deprecated": false,
"documentation": "The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. 
"endpointDiscoveryId": false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "fixedPrice",
"fluentSetterDocumentation" : "The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.\n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "fixedPrice",
"getterDocumentation" : "The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.\n\n@return The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering."
,"getterModel" : {
"returnType" : "Double",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "FixedPrice",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "FixedPrice",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "FixedPrice",
"sensitive" : false,
"setterDocumentation" : "The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.\n\n@param fixedPrice The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.\
\n@return The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering."
,"setterMethodName" : "setFixedPrice"
"setterModel": {
  "variableDeclarationType": "Double",
  "variableName": "fixedPrice",
  "variableType": "Double",
  "documentation": null,
  "simpleType": "Double",
  "variableSetterType": "Double"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Double",
  "variableName": "fixedPrice",
  "variableType": "Double",
  "documentation": '<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.</p>',
  "simpleType": "Double",
  "variableSetterType": "Double"
},
"xmlNameSpaceUri": null
}, {
  "beanStyleGetterMethodName": "getUsagePrice",
  "beanStyleSetterMethodName": "setUsagePrice",
  "c2jName": "UsagePrice",
  "c2jShape": "Double",
  "defaultConsumerFluentSetterDocumentation": '<p>The rate you are charged for each hour for the domain that is using this reserved instance. This is a convenience that creates an instance of the {@link Double.Builder} avoiding the need to create one manually via {@link Double#builder()}. When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to {@link #usagePrice(Double)} a consumer that will call methods on {@link Double.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #usagePrice(Double)",
  "deprecated": false,
  "documentation": '<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>',
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "usagePrice",
  "fluentSetterDocumentation": '<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>
@param usagePrice The rate you are charged for each hour for the domain that is using this reserved instance.
@return Returns a reference to this object so that method calls can be chained together.".,
  "fluentSetterMethodName": "usagePrice",
  "getterDocumentation": '<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>
@see #usagePrice(Double)",
  "deprecated": false,
  "documentation": '<p>The rate you are charged for each hour for the domain that is using this reserved instance.\n@see #usagePrice(Double)\n@para usagePrice The rate you are charged for each hour for the domain that is using this reserved instance.\n@return Returns a reference to this object so that method calls can be chained together.".,
  "getterSetterMethodName": "usagePrice",
  "getterDocumentation": '<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>
@see #usagePrice(Double)
@return Returns a reference to this object so that method calls can be chained together.".,
  "getterSetterMethodName": "usagePrice",
  "getterSetterDocumentation": '<p>The rate you are charged for each hour for the domain that is using this reserved instance.\n@return Returns a reference to this object so that method calls can be chained together.".,
"getterModel": {
  "returnType": "Double",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "UsagePrice",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "UsagePrice",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "DOUBLE",
"name": "UsagePrice",
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Double",
  "variableName": "usagePrice",
  "variableType": "Double",
  "documentation": null,
  "simpleType": "Double",
  "variableSetterType": "Double"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Double",
  "variableName": "usagePrice",
  "variableType": "Double",
  "documentation": null,
  "simpleType": "Double",
  "variableSetterType": "Double"}
The rate you are charged for each hour for the domain that is using this reserved instance.

The currency code for the reserved Elasticsearch instance offering.

Returns a reference to this object so that method calls can be chained together.
"statusCode" : false,
"unmarshallLocationName" : "CurrencyCode",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CurrencyCode",
"sensitive" : false,
"setterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param currencyCode The currency code for the reserved Elasticsearch instance offering.",
"setterMethodName" : "setCurrencyCode",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getElasticsearchInstanceCount",
"beanStyleSetterMethodName" : "setElasticsearchInstanceCount",
"c2jName" : "ElasticsearchInstanceCount",
"c2jShape" : "Integer",
"defaultConsumerFluentSetterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>
This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer.Builder#builder()}. When the { @link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchInstanceCount(Integer)},{ @param ElasticsearchInstanceCount a consumer that will call methods on { @link Integer.Builder} { @return Returns a reference to this object so that method calls can be chained together.}{ @see ElasticsearchInstanceCount(Integer)}

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"deprecated" : false,
"documentation" : "The number of Elasticsearch instances that have been reserved.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchInstanceCount",
"fluentSetterDocumentation" : "The number of Elasticsearch instances that have been reserved.
@param elasticsearchInstanceCount The number of Elasticsearch instances that have been reserved.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchInstanceCount",
"getterDocumentation" : "The number of Elasticsearch instances that have been reserved.
@param elasticsearchInstanceCount The number of Elasticsearch instances that have been reserved.
@return The number of Elasticsearch instances that have been reserved.
@type Integer
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchInstanceCount",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchInstanceCount",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "ElasticsearchInstanceCount",
"sensitive" : false,
"setterDocumentation" : "The number of Elasticsearch instances that have been reserved.
@param elasticsearchInstanceCount The number of Elasticsearch instances that have been reserved.
@type Integer
"setterMethodName" : "setElasticsearchInstanceCount",
"setterModel" : {
  "returnType" : "Integer",
  "documentation" : null
}
"setterModel" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "elasticsearchInstanceCount",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "elasticsearchInstanceCount",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null,
},
"beanStyleGetterMethodName" : "getState",
"beanStyleSetterMethodName" : "setState",
"c2jName" : "State",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {link String#builder()}.\nWhen the {link Consumer} completes, {link String.Builder#build()} is called immediately and its result is passed to {link #state(String)}.\n@param state a consumer that will call methods on {link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #state(String)",
"deprecated" : false,
"documentation" : "<p>The state of the reserved Elasticsearch instance.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "state",
"fluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>\n@param state The state of the reserved Elasticsearch instance.\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName" : "state",
"getterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>\n@return The state of the reserved Elasticsearch instance.\n",
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
}
"http": {
   "additionalMarshallingPath": null,
   "additionalUnmarshallingPath": null,
   "flattened": false,
   "greedy": false,
   "header": false,
   "isPayload": false,
   "isStreaming": false,
   "location": null,
   "marshallLocation": "PAYLOAD",
   "marshallLocationName": "State",
   "queryString": false,
   "statusCode": false,
   "unmarshallLocationName": "State",
   "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "State",
"sensitive": false,
"setterDocumentation": "\p>\nThe state of the reserved Elasticsearch instance.\n\n\n@param state The state of the reserved Elasticsearch instance."
,"setterMethodName": "setState",
"setterModel": {
   "variableDeclarationType": "String",
   "variableName": "state",
   "variableType": "String",
   "documentation": null,
   "simpleType": "String",
   "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
   "variableDeclarationType": "String",
   "variableName": "state",
   "variableType": "String",
   "documentation": "\p>\nThe state of the reserved Elasticsearch instance."
,"simpleType": "String",
   "variableSetterType": "String"
},
null
},
{
  "beanStyleGetterMethodName" : "getPaymentOptionAsString",
  "beanStyleSetterMethodName" : "setPaymentOption",
  "c2jName" : "PaymentOption",
  "c2jShape" : "ReservedElasticsearchInstancePaymentOption",
  "defaultConsumerFluentSetterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering.\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #paymentOptionAsString(String)\}.\n@param paymentOption a consumer that will call methods on \{@link String.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #paymentOption(String)",
  "deprecated" : false,
  "documentation" : "The payment option as defined in the reserved Elasticsearch instance offering.\nIf the service returns an enum value that is not available in the current SDK version, \{@link #paymentOption\} will return \{@link ReservedElasticsearchInstancePaymentOption#UNKNOWN_TO_SDK_VERSION\}. The raw value returned by the service is available from \{@link #paymentOptionAsString\}.\n\nIf the service returns an enum value that is not available in the current SDK version, \{@link #paymentOption\} will return \{@link ReservedElasticsearchInstancePaymentOption#UNKNOWN_TO_SDK_VERSION\}. The raw value returned by the service is available from \{@link #paymentOptionAsString\}.
"
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "PaymentOption",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "PaymentOption",
"sensitive" : false,
"setterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering.\n@param paymentOption The payment option as defined in the reserved Elasticsearch instance offering.\n@see ReservedElasticsearchInstancePaymentOption",
"setterMethodName" : "setPaymentOption",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : "The payment option as defined in the reserved Elasticsearch instance offering.\n"},
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null},
{
  "beanStyleGetterMethodName" : "getRecurringCharges",
  "beanStyleSetterMethodName" : "setRecurringCharges",
  "c2jName" : "RecurringCharges",
  "c2jShape" : "RecurringChargeList",
  "defaultConsumerFluentSetterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.\nThis is a convenience that creates an instance of the {link List<RecurringCharge>\#builder()} when the {link Consumer} completes, {link List<RecurringCharge>.Builder\#build()} is called immediately and its result is passed to {link
# recurringCharges(List<RecurringCharge>)

@link List<RecurringCharge>.

@see recurringCharges(List<RecurringCharge>)

- **deprecated**: false,
- **documentation**: "The charge to your account regardless of whether you are creating any domains using the instance offering."
- **endpointDiscoveryId**: false,
- **enumType**: null,
- **eventHeader**: false,
- **eventPayload**: false,
- **fluentEnumGetterMethodName**: null,
- **fluentEnumSetterMethodName**: null,
- **fluentGetterMethodName**: "recurringCharges",
- **fluentSetterDocumentation**: "The charge to your account regardless of whether you are creating any domains using the instance offering."
- **fluentSetterMethodName**: "recurringCharges",
- **getterDocumentation**: "The charge to your account regardless of whether you are creating any domains using the instance offering. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException."
- **getterModel**: {"returnType": "java.util.List<RecurringCharge>",
  "documentation": null}
- **http**: {"additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "RecurringCharges",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "RecurringCharges",
  "uri": false}
- **idempotencyToken**: false,
- **isBinary**: false,
- **jsonValue**: false,
- **list**: true,
- **listModel**: {"implType": "java.util.ArrayList"}
"interfaceType" : "java.util.List",
"listMemberModel" : {
  "beanStyleGetterMethodName" : "getMember",
  "beanStyleSetterMethodName" : "setMember",
  "c2jName" : "member",
  "c2jShape" : "RecurringCharge",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [ @link RecurringCharge.Builder] avoiding the need to create one manually via [ @link RecurringCharge#builder()]. When the [ @link Consumer] completes, [ @link RecurringCharge.Builder#build()] is called immediately and its result is passed to [ @link #member(RecurringCharge)].
@see #member(RecurringCharge)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.
@see #member(RecurringCharge)",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object. The value of the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
  "getterModel" : {
    "returnType" : "RecurringCharge",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
  }
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "RecurringCharge",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "RecurringCharge",
"templateImplType" : "java.util.ArrayList<RecurringCharge>",
"templateType" : "java.util.List<RecurringCharge>"}
"setterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.",
"setterMethodName" : "setRecurringCharges",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<RecurringCharge>",
  "variableName" : "recurringCharges",
  "variableType" : "java.util.List<RecurringCharge>",
  "documentation" : null,
  "simpleType" : "List<RecurringCharge>",
  "variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<RecurringCharge>",
  "variableName" : "recurringCharges",
  "variableType" : "java.util.List<RecurringCharge>",
  "documentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.",
  "simpleType" : "List<RecurringCharge>",
  "variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
  "CurrencyCode" : {
    "beanStyleGetterMethodName" : "getCurrencyCode",
    "beanStyleSetterMethodName" : "setCurrencyCode",
    "c2jName" : "CurrencyCode",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.",
    "deprecated" : false,
    "documentation" : "The currency code for the reserved Elasticsearch instance offering.",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "currencyCode",
    "fluentSetterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.",
    "deprecated" : false,
    "documentation" : "The currency code for the reserved Elasticsearch instance offering.",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "currencyCode",
    "fluentSetterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.
  @param currencyCode The currency code for the reserved Elasticsearch instance offering.
  @return Returns a reference to this object so that method calls can be chained together.
  @see #currencyCode(String)"
}
Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "currencyCode",
"getterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@return The currency code for the reserved Elasticsearch instance offering.

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CurrencyCode",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CurrencyCode",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CurrencyCode",
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CurrencyCode",
"_sensitive" : false,
"setterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param currencyCode The currency code for the reserved Elasticsearch instance offering.

"setterMethodName" : "setCurrencyCode",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "currencyCode",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
}
"variableDeclarationType" : "String",
"variableName" : "currencyCode",
"variableType" : "String",
"documentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"Duration" : {
"beanStyleGetterMethodName" : "getDuration",
"beanStyleSetterMethodName" : "setDuration",
"c2jName" : "Duration",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>\nThis is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}.\nWhen the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #duration(Integer)}.\n@param duration a consumer that will call methods on {@link Integer.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #duration(Integer)",
"deprecated" : false,
"documentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "duration",
"fluentSetterMethodName" : "duration",
"fluentSetterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>\n@return Returns a reference to this object so that method calls can be chained together.\n","getDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>\n@return The duration, in seconds, for which the Elasticsearch instance is reserved.\n@see #duration(Integer)",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Duration",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Duration",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "Duration",
"sensitive" : false,
"setterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>
@param duration The duration, in seconds, for which the Elasticsearch instance is reserved.",
"setterMethodName" : "setDuration",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchInstanceCount" : {
  "beanStyleGetterMethodName" : "getElasticsearchInstanceCount",
  "beanStyleSetterMethodName" : "setElasticsearchInstanceCount",
  "c2jName" : "ElasticsearchInstanceCount",
  "c2jShape" : "Integer",
  "defaultConsumerFluentSetterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the [@link Consumer] completes, [@link
Integer.Builder#build()} is called immediately and its result is passed to \{@link elasticsearchInstanceCount(Integer)}.
@returns a reference to this object so that method calls can be chained together.
@see elasticsearchInstanceCount(Integer)

\param elasticsearchInstanceCount a consumer that will call methods on Integer.Builder

\returns Returns a reference to this object so that method calls can be chained together.

\see elasticsearchInstanceCount(Integer)

The number of Elasticsearch instances that have been reserved.

The number of Elasticsearch instances that have been reserved.

\param elasticsearchInstanceCount The number of Elasticsearch instances that have been reserved.

\returns Returns a reference to this object so that method calls can be chained together.

\see elasticsearchInstanceCount

The number of Elasticsearch instances that have been reserved.
"setterDocumentation": "\r\nThe number of Elasticsearch instances that have been reserved.\r\n\n@param elasticsearchInstanceCount The number of Elasticsearch instances that have been reserved.\r\n",
"setterMethodName": "setElasticsearchInstanceCount",
"setterModel": {
   "variableDeclarationType": "Integer",
   "variableName": "elasticsearchInstanceCount",
   "variableType": "Integer",
   "documentation": null,
   "simpleType": "Integer",
   "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
   "variableDeclarationType": "Integer",
   "variableName": "elasticsearchInstanceCount",
   "variableType": "Integer",
   "documentation": "The number of Elasticsearch instances that have been reserved.",
   "simpleType": "Integer",
   "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null,

"ElasticsearchInstanceType": {
   "beanStyleGetterMethodName": "getElasticsearchInstanceTypeAsString",
   "beanStyleSetterMethodName": "setElasticsearchInstanceType",
   "c2jName": "ElasticsearchInstanceType",
   "c2jShape": "ESPartitionInstanceType",
   "defaultConsumerFluentSetterDocumentation": "The Elasticsearch instance type offered by the reserved instance offering.\r\nThis is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create one manually via \{ @link String.Builder\}. \n\nWhen the \{ @link Consumer \} completes, \{ @link String.Builder\#build\} is called immediately and its result is passed to \{ @link \#elasticsearchInstanceTypeAsString\} a consumer that will call methods on \{ @link String.Builder\} \n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #elasticsearchInstanceType(String)",
   "deprecated": false,
   "documentation": "The Elasticsearch instance type offered by the reserved instance offering.\r\n",
   "endpointDiscoveryId": false,
   "enumType": "ESPartitionInstanceType",
   "eventHeader": false,
   "eventPayload": false,
   "fluentEnumGetterMethodName": "elasticsearchInstanceType",
   "fluentEnumSetterMethodName": "elasticsearchInstanceType",
   "fluentGetterMethodName": "elasticsearchInstanceTypeAsString",
   "fluentSetterDocumentation": "The Elasticsearch instance type offered by the reserved instance offering.\r\n\n@see ESPartitionInstanceType\n\n@return Returns a reference to this object so that method calls can be
chained together.

@see ESPartitionInstanceType

"getterDocumentation" : "&lt;p&gt;The Elasticsearch instance type offered by the reserved instance offering.&lt;/p&gt;&lt;p&gt;If the service returns an enum value that is not available in the current SDK version, [@link #elasticsearchInstanceType] will return [@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #elasticsearchInstanceTypeAsString].&lt;/p&gt;&lt;p&gt;@return The Elasticsearch instance type offered by the reserved instance offering.&lt;/p&gt;&lt;@see ESPartitionInstanceType"

"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ElasticsearchInstanceType",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ElasticsearchInstanceType",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchInstanceType",
"sensitive" : false,
"setterDocumentation" : "&lt;p&gt;The Elasticsearch instance type offered by the reserved instance offering.&lt;/p&gt;&lt;@param ElasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.&lt;/p&gt;&lt;@see ESPartitionInstanceType"

"setterMethodName" : "setElasticsearchInstanceType",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "elasticsearchInstanceType",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String"
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "elasticsearchInstanceType",
    "variableType" : "String",
    "documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"FixedPrice" : {
    "beanStyleGetterMethodName" : "getFixedPrice",
    "beanStyleSetterMethodName" : "setFixedPrice",
    "c2jName" : "FixedPrice",
    "c2jShape" : "Double",
    "defaultConsumerFluentSetterDocumentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>
This is a convenience that creates an instance of the {@link Double.Builder} avoiding the need to create one manually via {@link Double#builder()}. When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to {@link Double#fixedPrice(Double)}. Returns a reference to this object so that method calls can be chained together.<p>
@see #fixedPrice(Double)",
    "deprecated" : false,
    "documentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>
@<param fixedPrice a consumer that will call methods on {@link Double.Builder} that will method calls one manually via {@link Double#builder()}. When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to {@link Double#fixedPrice(Double)}. Returns a reference to this object so that method calls can be chained together.<p>
@see #fixedPrice(Double)",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "fixedPrice",
    "fluentSetterDocumentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>
@<param fixedPrice The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.
@<return Returns a reference to this object so that method calls can be chained together.".,
    "fluentSetterMethodName" : "fixedPrice",
    "getterDocumentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>
@<return The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.
@<return Returns a reference to this object so that method calls can be chained together.".,
    "getterModel" : {
        "returnType" : "Double",
        "documentation" : null
    },
    "http" : {"variableSetterType" : "String"}
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "FixedPrice",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "FixedPrice",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "FixedPrice",
"sensitive" : false,
"setterDocumentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>
@param fixedPrice The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.",
"setterMethodName" : "setFixedPrice",
"setterModel" : {
"variableDeclarationType" : "Double",
"variableName" : "fixedPrice",
"variableType" : "Double",
"documentation" : null,
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Double",
"variableName" : "fixedPrice",
"variableType" : "Double",
"documentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>
"simpleType" : "Double",
"variableSetterType" : "Double"}
This is a convenience that creates an instance of the `@link String.Builder` avoiding the need to create one manually via `{@link String.Builder}. When the `{@link Consumer} completes, `{@link String.Builder#build()} is called immediately and its result is passed to `{@link #paymentOptionAsString(String)}. The payment option as defined in the reserved Elasticsearch instance offering.

- `{@link String.Builder#build()} is called immediately and its result is passed to `{@link #paymentOptionAsString(String)}. The payment option as defined in the reserved Elasticsearch instance offering.

- `{@link String.Builder#build()} is called immediately and its result is passed to `{@link #paymentOptionAsString(String)}. The payment option as defined in the reserved Elasticsearch instance offering.

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- `{@link String.Builder#build()} is called immediately and its result is passed to `{@link #paymentOptionAsString(String)}. The payment option as defined in the reserved Elasticsearch instance offering.

- `{@link String.Builder#build()} is called immediately and its result is passed to `{@link #paymentOptionAsString(String)}. The payment option as defined in the reserved Elasticsearch instance offering.

- `{@link String.Builder#build()} is called immediately and its result is passed to `{@link #paymentOptionAsString(String)}. The payment option as defined in the reserved Elasticsearch instance offering.

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- `{@link String.Builder#build()} is called immediately and its result is passed to `{@link #paymentOptionAsString(String)}. The payment option as defined in the reserved Elasticsearch instance offering.

- `{@link String.Builder#build()} is called immediately and its result is passed to `{@link #paymentOptionAsString(String)}. The payment option as defined in the reserved Elasticsearch instance offering.
"marshallLocationName" : "PaymentOption",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "PaymentOption",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "PaymentOption",
"sensitive" : false,
"setterDocumentation" : "\n\n@The payment option as defined in the reserved Elasticsearch instance offering.\n
@see ReservedElasticsearchInstancePaymentOption",
"setterMethodName" : "setPaymentOption",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : "\n\n The payment option as defined in the reserved Elasticsearch instance offering.\n
@see ReservedElasticsearchInstancePaymentOption",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"RecurringCharges" : {
  "beanStyleGetterMethodName" : "getRecurringCharges",
  "beanStyleSetterMethodName" : "setRecurringCharges",
  "c2jName" : "RecurringCharges",
  "c2jShape" : "RecurringChargeList",
  "defaultConsumerFluentSetterDocumentation" : "\n\nThe charge to your account regardless of whether you are creating any domains using the instance offering.\nThis is a convenience that creates an instance of the \n\n[@link List<RecurringCharge>.Builder] avoiding the need to create one manually via [@link}
When the `@link Consumer` completes, `{@link List<RecurringCharge>}` is called immediately and its result is passed to `{@link #recurringCharges(List<RecurringCharge>)}

When the `@link Consumer` completes, `{@link List<RecurringCharge>}` is called immediately and its result is passed to `{@link #recurringCharges(List<RecurringCharge>)}

### Documentation

- **Return Type**: `java.util.List<RecurringCharge>`
- **Documentation**: The charge to your account regardless of whether you are creating any domains using the instance offering.

### GETTER

- **Method Name**: `recurringCharges`
- **Documentation**: The charge to your account regardless of whether you are creating any domains using the instance offering.

### FLUENT

- **Method Name**: `recurringCharges`
- **Documentation**: The charge to your account regardless of whether you are creating any domains using the instance offering.

### IDEMPOTENCY

- **Identifier**: `false`

### HTTP

- **Additional Marshalling Path**: `null`
- **Additional Unmarshalling Path**: `null`
- **Flattened**: `false`
- **Greedy**: `false`
- **Header**: `false`
- **Is Payload**: `false`
- **Is Streaming**: `false`
- **Location**: `null`
- **Marshall Location**: `PAYLOAD`
- **Marshall Location Name**: `RecurringCharges`
- **Query String**: `false`
- **Status Code**: `false`
- **Unmarshall Location Name**: `RecurringCharges`
- **URI**: `false`

- **Idempotency Token**: `false`
- **Is Binary**: `false`
- **JSON Value**: `false`
- **List**: `true`
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "RecurringCharge",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the [link RecurringCharge.Builder] avoiding the
need to create one manually via [link RecurringCharge#builder()]. When the [link Consumer] completes,
[link RecurringCharge.Builder#build()] is called immediately and its result is passed to [link
#member(RecurringCharge)].
@param member a consumer that will call methods on [link
RecurringCharge.Builder]
@return Returns a reference to this object so that method calls can be chained
together.
@see #member(RecurringCharge)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this
object. The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained
together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.",
  "getterModel" : {
    "returnType" : "RecurringCharge",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
  }
}
null

null

null

null

null

null

null

null

null

null

null

null

null

null

null

null

null

null

null

null

null

null
"name" : "RecurringCharges",
"sensitive" : false,
"setterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.",
"setterMethodName" : "setRecurringCharges",
"setterModel" : {
"variableDeclarationType" : "java.util.List<RecurringCharge>",
"variableName" : "recurringCharges",
"documentation" : null,
"simpleType" : "List<RecurringCharge>",
"variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<RecurringCharge>",
"variableName" : "recurringCharges",
"documentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>",
"simpleType" : "List<RecurringCharge>",
"variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"xmlNameSpaceUri" : null,
"ReservationName" : {
"beanStyleGetterMethodName" : "getReservationName",
"beanStyleSetterMethodName" : "setReservationName",
"c2jName" : "ReservationName",
"c2jShape" : "ReservationToken",
"defaultConsumerFluentSetterDocumentation" : "<p>The customer-specified identifier to track this reservation.</p>
@link String.Builder] avoiding the need to create one manually via [ @link String#builder()]. When the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #reservationName(String)].
@see #reservationName(String)",
"deprecated" : false,
"documentation" : "<p>The customer-specified identifier to track this reservation.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterDocumentation" : "The customer-specified identifier to track this reservation.\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName" : "reservationName",
"getterDocumentation" : "The customer-specified identifier to track this reservation.\n@return The customer-specified identifier to track this reservation.\n",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flat" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"simple" : false,
"setterDocumentation" : "The customer-specified identifier to track this reservation.\n",
"setterMethodName" : "setReservationName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservationName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : "<p>The customer-specified identifier to track this reservation.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"ReservedElasticsearchInstanceId" : {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
  "c2jName" : "ReservedElasticsearchInstanceId",
  "c2jShape" : "GUID",
  "defaultConsumerFluentSetterDocumentation" : ":<p>The unique identifier for the reservation.</p>
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #reservedElasticsearchInstanceId(String)].
@param reservedElasticsearchInstanceId a consumer that will call methods on [link String.Builder] to return a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceId(String)",
  "deprecated" : false,
  "documentation" : "<p>The unique identifier for the reservation.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservedElasticsearchInstanceId",
  "fluentSetterDocumentation" : "<p>The unique identifier for the reservation.</p>
@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "reservedElasticsearchInstanceId",
  "getterDocumentation" : "<p>The unique identifier for the reservation.</p>
@return The unique identifier for the reservation.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "endpointDiscoveryId" : false,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceId",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"sensitive" : false,
"setterDocumentation" : "<p>The unique identifier for the reservation.</p>\n@param reservedElasticsearchInstanceId The unique identifier for the reservation."
,"setterMethodName" : "setReservedElasticsearchInstanceId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : "<p>The unique identifier for the reservation.</p>\n","simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ReservedElasticsearchInstanceOfferingId" : {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
  "c2jName" : "ReservedElasticsearchInstanceOfferingId",
  "c2jShape" : "String",
}
"defaultConsumerFluentSetterDocumentation" : "<p>The offering identifier.</p>
This is a convenience that creates an instance of the [String builder] avoiding the need to create one manually via [String builder()].

When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [reservedElasticsearchInstanceOfferingId(String)].

@see reservedElasticsearchInstanceOfferingId

Returns a reference to this object so that method calls can be chained together.

@param reservedElasticsearchInstanceOfferingId a consumer that will call methods on [String.Builder]
@return Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p>The offering identifier.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "<p>The offering identifier.</p>
@param reservedElasticsearchInstanceOfferingId The offering identifier.
@return The offering identifier.

"getterDocumentation" : "<p>The offering identifier.</p>
@return The offering identifier.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallerType": "STRING",
"name": "ReservedElasticsearchInstanceOfferingId",
"sensitive": false,
"setterDocumentation": "<p>The offering identifier.</p>@param reservedElasticsearchInstanceOfferingId
The offering identifier.",
"setterMethodName": "setReservedElasticsearchInstanceOfferingId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": "The offering identifier.",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": "The offering identifier.",
  "simpleType": "String",
  "variableSetterType": "String"
",
"xmlNameSpaceUri": null
},
"StartTime": {
  "beanStyleGetterMethodName": "getStartTime",
  "beanStyleSetterMethodName": "setStartTime",
  "c2jName": "StartTime",
  "c2jShape": "UpdateTimestamp",
  "defaultConsumerFluentSetterDocumentation": "<p>The time the reservation started.</p>@param startTime a consumer that will call methods on {@link Instant.Builder} avoiding the need to create one manually via {@link Instant.Builder#builder()}. When the {@link Consumer} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to {@link #startTime(Instant)}. @return Returns a reference to this object so that method calls can be chained together.@see #startTime(Instant)",
  "deprecated": false,
  "documentation": "The time the reservation started.",
  "endpointDiscoveryId": false,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "startTime",
  "fluentSetterDocumentation": "The time the reservation started.
  @return Returns a reference to this object so that method calls can be chained together."}
"fluentSetterMethodName" : "startTime",
"getterDocumentation" : "<p>The time the reservation started.<p>
\n@return The time the reservation started.",
"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StartTime",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StartTime",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "StartTime",
"sensitive" : false,
"setterDocumentation" : "<p>The time the reservation started.<p>
\n@param startTime The time the reservation started.",
"setterMethodId" : "setStartTime",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTime",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant"
"variableName": "startTime",
"variableType": "java.time.Instant",
"documentation": "<p>The time the reservation started.</p>",
"simpleType": "Instant",
"variableSetterType": "java.time.Instant"
},
"xmlnsSpaceUri": null
},
"State": {
"beanStyleGetterMethodName": "getState",
"beanStyleSetterMethodName": "setState",
"c2jName": "State",
"c2jShape": "String",
"defaultConsumerFluentSetterDocumentation": "<p>The state of the reserved Elasticsearch instance.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.
When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #state(String)}.
@param state a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #state(String)",
"deprecated": false,
"documentation": "<p>The state of the reserved Elasticsearch instance.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "state",
"fluentSetterDocumentation": "<p>The state of the reserved Elasticsearch instance.</p>
@param state The state of the reserved Elasticsearch instance.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "state",
"getterDocumentation": "<p>The state of the reserved Elasticsearch instance.</p>
@return The state of the reserved Elasticsearch instance.",
"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD"
marshallLocationName" : "State",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "State",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "State",
"sensitive" : false,
"setterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
@param state The state of the reserved Elasticsearch instance.",
"setterMethodName" : "setState",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : "<p>The state of the reserved Elasticsearch instance.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UsagePrice" : {
  "beanStyleGetterMethodName" : "getUsagePrice",
  "beanStyleSetterMethodName" : "setUsagePrice",
  "c2jName" : "UsagePrice",
  "c2jShape" : "Double",
  "defaultConsumerFluentSetterDocumentation" : "<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>
This is a convenience that creates an instance of the { @link Double.Builder} avoiding the need to create one manually via { @link Double#builder()}.\nWhen the { @link Consumer} completes, { @link Double.Builder#build()} is called immediately and its result is passed to { @link
"sensitive": false,
"setterDocumentation": "<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>
@param usagePrice The rate you are charged for each hour for the domain that is using this reserved instance.",
"setterMethodName": "setUsagePrice",
"setterModel": {
  "variableDeclarationType": "Double",
  "variableName": "usagePrice",
  "variableType": "Double",
  "documentation": null,
  "simpleType": "Double",
  "variableSetterType": "Double"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Double",
  "variableName": "usagePrice",
  "variableType": "Double",
  "documentation": "<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>",
  "simpleType": "Double",
  "variableSetterType": "Double"
},
"xmlNameSpaceUri": null
},
"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getReservationName",
    "beanStyleSetterMethodName": "setReservationName",
    "c2jName": "ReservationName",
    "c2jShape": "ReservationToken",
    "defaultConsumerFluentSetterDocumentation": "<p>The customer-specified identifier to track this reservation.</p>
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #reservationName(String)].

@return Returns a reference to this object so that method calls can be chained together.
@see #reservationName(String)",
  "deprecated": false,
  "documentation": "<p>The customer-specified identifier to track this reservation.</p>",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "reservationName"
"fluentSetterDocumentation": "The customer-specified identifier to track this reservation.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "reservationName",
"getterDocumentation": "The customer-specified identifier to track this reservation.
@return The customer-specified identifier to track this reservation."

"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "ReservationName",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ReservationName",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservationName",
"simple": false,
"setterDocumentation": "The customer-specified identifier to track this reservation.
.setterMethodName": "setReservationName",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "reservationName",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : "<p>The customer-specified identifier to track this reservation.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
"c2jName" : "ReservedElasticsearchInstanceId",
"c2jShape" : "GUID",
"defaultConsumerFluentSetterDocumentation" : "<p>The unique identifier for the reservation.</p>\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #reservedElasticsearchInstanceId(String)}. \n\n@see reservedElasticsearchInstanceId(String)",
  "deprecated" : false,
  "documentation" : "<p>The unique identifier for the reservation.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservedElasticsearchInstanceId",
  "fluentSetterDocumentation" : "<p>The unique identifier for the reservation.</p>\n\n@ see reservedElasticsearchInstanceId The unique identifier for the reservation. \n\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "reservedElasticsearchInstanceId",
  "getterDocumentation" : "<p>The unique identifier for the reservation.</p>\n\n@return The unique identifier for the reservation.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"sensitive" : false,
"setterDocumentation" : "&lt;p&gt;The unique identifier for the reservation.&lt;/p&gt;
@param reservedElasticsearchInstanceId The unique identifier for the reservation.",
"setterMethodName" : "setReservedElasticsearchInstanceId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : "&lt;p&gt;The unique identifier for the reservation.&lt;/p&gt;",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"c2jName" : "ReservedElasticsearchInstanceOfferingId",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The offering identifier.&lt;/p&gt;
This is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link
When the `@link Consumer` completes, `@link String.Builder#build()` is called immediately and its result is passed to `@link reservedElasticsearchInstanceOfferingId(String)`.

```java
public void reservedElasticsearchInstanceOfferingId(String reservedElasticsearchInstanceOfferingId) {
    String#builder()

    When the `@link Consumer` completes, `@link String.Builder#build()` is called immediately and its result is passed to `@link reservedElasticsearchInstanceOfferingId(String)`.

    @param reservedElasticsearchInstanceOfferingId a consumer that will call methods on `@link String.Builder`
    @return Returns a reference to this object so that method calls can be chained together.

    "deprecated" : false,
    "documentation" : "<p>The offering identifier.</p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
    "fluentSetterDocumentation" : "<p>The offering identifier.</p>

    reservedElasticsearchInstanceOfferingId The offering identifier.
    @return Returns a reference to this object so that method calls can be chained together.

    "fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
    "getterDocumentation" : "<p>The offering identifier.</p>

    reservedElasticsearchInstanceOfferingId The offering identifier.
    @return The offering identifier.

    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
    "map" : false,
    "mapModel" : null,
    "marshallingType" : "STRING",
    "name" : "ReservedElasticsearchInstanceOfferingId",
```
"sensitive" : false,
"setterDocumentation" : "<p>The offering identifier.</p>
@param reservedElasticsearchInstanceOfferingId
The offering identifier.",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : "<p>The offering identifier.</p>
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getElasticsearchInstanceTypeAsString",
"beanStyleSetterMethodName" : "setElasticsearchInstanceType",
"c2jName" : "ElasticsearchInstanceType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
When the Consumer completes, {@link String.Builder} is called immediately and its result is passed to {@link ESPartitionInstanceType}.

@see #elasticsearchInstanceType#elasticsearchInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType(String)",
"deprecated" : false,
"documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceType",
"fluentEnumSetterMethodName" : "elasticsearchInstanceType",
"fluentGetterMethodName" : "elasticsearchInstanceTypeAsString",
"fluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType"
"getterSetterMethodName" : "elasticsearchInstanceType",
"getterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering. If the service returns an enum value that is not available in the current SDK version, [@link #elasticsearchInstanceType] will return [@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #elasticsearchInstanceTypeAsString].

@return The Elasticsearch instance type offered by the reserved instance offering.

@see ESPartitionInstanceType",

"getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchInstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchInstanceType",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchInstanceType",
"sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.

@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.

@see ESPartitionInstanceType",

"setterMethodName" : "setElasticsearchInstanceType",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "elasticsearchInstanceType",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"}
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getStartTime",
"beanStyleSetterMethodName" : "setStartTime",
"c2jName" : "StartTime",
"c2jShape" : "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>The time the reservation started.</p>
This is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via
{@link Instant#builder()}. When the {@link Consumer} completes, {@link Instant.Builder#build()} is called
immediately and its result is passed to {@link #startTime(Instant)}.\n
@see #startTime(Instant)"
,"deprecated" : false,
"documentation" : "<p>The time the reservation started.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "startTime",
"fluentSetterDocumentation" : "<p>The time the reservation started.</p>
@param startTime The time the reservation started.
@return Returns a reference to this object so that method calls can be chained together.
@see #startTime(Instant)"
,"fluentSetterMethodName" : "startTime",
"getterDocumentation" : "<p>The time the reservation started.</p>"
,"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
"setterDocumentation" : "<p>The time the reservation started.</p>
@param startTime The time the reservation started.",
"setterMethodName" : "setStartTime",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTime",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTime",
  "variableType" : "java.time.Instant",
  "documentation" : "<p>The time the reservation started.</p>",
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlnsNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getDuration",
  "beanStyleSetterMethodName" : "setDuration",
  "c2jName" : "Duration",
  "c2jShape" : "Integer",
  "defaultConsumerFluentSetterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}.\n\nWhen the {@link Consumer} completes, {@link
Integer.Builder#build()} is called immediately and its result is passed to {@link #duration(Integer)}.
@para
duration a consumer that will call methods on {@link Integer.Builder}.
@para
@return Returns a reference to this object so that method calls can be chained together.
@see #duration(Integer)
"deprecated" : false,
"documentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "duration",
"fluentSetterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>
@para
duration The duration, in seconds, for which the Elasticsearch instance is reserved.
@para
@return The duration, in seconds, for which the Elasticsearch instance is reserved.
@para
@see #duration(Integer)",
"fluentSetterMethodName" : "duration",
"getterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>
@return The duration, in seconds, for which the Elasticsearch instance is reserved.
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Duration",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Duration",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "Duration",
"sensitive" : false,
"setterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>
@param duration The duration, in seconds, for which the Elasticsearch instance is reserved."
"setterMethodName" : "setDuration",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getFixedPrice",
  "beanStyleSetterMethodName" : "setFixedPrice",
  "c2jName" : "FixedPrice",
  "c2jShape" : "Double",
  "defaultConsumerFluentSetterDocumentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. 
This is a convenience that creates an instance of the {@link Double.Builder} avoiding the need to create one manually via {@link Double#builder()}.
When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to {@link #fixedPrice(Double)}.
@param fixedPrice a consumer that will call methods on {@link Double.Builder} 
@return Returns a reference to this object so that method calls can be chained together.
@see #fixedPrice(Double)"
  "deprecated" : false,
  "documentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. 
</p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "fixedPrice",
  "fluentSetterDocumentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. 
</p>
  "fluentSetterMethodName" : "fixedPrice",
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentSetterReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
  "fluentFunction" : null,
  "fluentFunctionBody" : null,
  "fluentFunctionType" : null,
  "fluentFunctionArguments" : null,
  "fluentFunctionDocumentation" : null,
  "fluentFunctionParameters" : null,
  "fluentFunctionReturn" : null,
The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

```json
"getterDocumentation": 
  "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>

@return The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.",

"getterModel": {
  "returnType": "Double",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "FixedPrice",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "FixedPrice",
  "uri": false
},

"idempotencyToken": false,

"isBinary": false,

"jsonValue": false,

"list": false,

"listModel": null,

"map": false,

"mapModel": null,

"marshallingType": "DOUBLE",

"name": "FixedPrice",

"setterDocumentation": 
  "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>

@param fixedPrice The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.",

"setterMethodName": "setFixedPrice",

"setterModel": {
  "variableDeclarationType": "Double",
  "variableName": "fixedPrice",
  "variableType": "Double",
  "documentation": null,
  "simpleType": "Double",
  "variableSetterType": "Double"
},

"simple": true,

"timestampFormat": null,

"variable": {

```
"variableDeclarationType" : "Double",
"variableName" : "fixedPrice",
"variableType" : "Double",
"documentation" : "The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>",
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getUsagePrice",
"beanStyleSetterMethodName" : "setUsagePrice",
"c2jName" : "UsagePrice",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.

This is a convenience that creates an instance of the { @link Double.Builder} avoiding the need to create one manually via { @link Double#builder()}. When the { @link Consumer} completes, { @link Double.Builder#build()} is called immediately and its result is passed to { @link #usagePrice(Double)}.

@defaultConsumerFluentSetterDocumentation
@see #usagePrice(Double)

deprecated" : false,
"documentation" : "The rate you are charged for each hour for the domain that is using this reserved instance. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "usagePrice",
"fluentSetterDocumentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.

@defaultConsumerFluentSetterDocumentation
@see #usagePrice(Double)

annotation" : false,
"deprecated" : false,
"documentation" : "The rate you are charged for each hour for the domain that is using this reserved instance. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "usagePrice",
"fluentSetterDocumentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.

@defaultConsumerFluentSetterDocumentation
@see #usagePrice(Double)

returnType" : "Double",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"xmlNameSpaceUri" : null
}
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UsagePrice",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UsagePrice",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "UsagePrice",
"sensitive" : false,
"setterDocumentation" : "\pnThe rate you are charged for each hour for the domain that is using this reserved instance.\p@\r\n@param usagePrice The rate you are charged for each hour for the domain that is using this reserved instance.\p",
"setterMethodName" : "setUsagePrice",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : "\pnThe rate you are charged for each hour for the domain that is using this reserved instance.\p",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getCurrencyCode",
  "beanStyleSetterMethodName" : "setCurrencyCode",
  "c2jName" : "CurrencyCode",
  "c2jShape" : "String"}
The currency code for the reserved Elasticsearch instance offering.

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String#builder()`. When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `currencyCode(String)`.

@see #currencyCode(String)

```
@deprecated
@defaultConsumerFluentSetterDocumentation: "<p>The currency code for the reserved Elasticsearch instance offering.</p>"
@enddefaultConsumerFluentSetterDocumentation
```

```
@defaultFluentGetterDocumentation: "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@return The currency code for the reserved Elasticsearch instance offering.
```

```
@defaultFluentSetterDocumentation: "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param currencyCode The currency code for the reserved Elasticsearch instance offering.
@return Returns a reference to this object so that method calls can be chained together.
```

```
@defaultGetterDocumentation: "<p>The currency code for the reserved Elasticsearch instance offering.</p>
```

```
@defaultHttp: {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "CurrencyCode",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "CurrencyCode",
    "uri": false
},

```

```
@defaultIdempotencyToken: false,
```

```
@defaultIsBinary: false,
```

```
@defaultJsonValue: false,
```

```
@defaultList: false,
```

```
@defaultListModel: null,
```

```
@defaultMap: false,
```

```
@defaultMapModel: null,
```

```
@defaultUri: false,
```

```
@defaultUriModel: null,
```

```
@defaultUriModel: null,
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@defaultUriModel: null,
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@defaultUriModel: null,
```

```
@defaultUriModel: null,
```

```
@defaultUriModel: null,
"marshallingType" : "STRING",
"name" : "CurrencyCode",
"sensitive" : false,
"setterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param currencyCode The currency code for the reserved Elasticsearch instance offering.",
"setterMethodName" : "setCurrencyCode",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : "{\p>\n@param currencyCode The currency code for the reserved Elasticsearch instance offering.</p>"},
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
},
{ "beanStyleGetterMethodName" : "getElasticsearchInstanceCount",
"beanStyleSetterMethodName" : "setElasticsearchInstanceCount",
"c2jName" : "ElasticsearchInstanceCount",
"c2jShape" : "Integer",
"defaultConsumerFluentSetterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>\n\nThis is a convenience that creates an instance of the {\link Integer.Builder} avoiding the need to create one manually via {\link Integer#builder()}\n\nWhen the {\link Consumer} completes, {\link Integer.Builder#build()} is called immediately and its result is passed to {\link #elasticsearchInstanceCount(Integer)}\n\n@returns a reference to this object so that method calls can be chained together.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #elasticsearchInstanceCount(Integer)",
"deprecated" : false,
"documentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>"},
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchInstanceCount",
"fluentSetterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>\n\n@returns a reference to this object so that method calls can be chained together.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #elasticsearchInstanceCount(Integer)"}
return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "elasticsearchInstanceCount",
"getterDocumentation" : "The number of Elasticsearch instances that have been reserved.",
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchInstanceCount",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchInstanceCount",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "ElasticsearchInstanceCount",
"setterDocumentation" : "The number of Elasticsearch instances that have been reserved.",
"setterMethodName" : "setElasticsearchInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "elasticsearchInstanceCount",
"variableType" : "Integer",
"documentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getState",
"beanStyleSetterMethodName" : "setState",
"c2jName" : "State",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, the String.Builder#build() is called immediately and its result is passed to the state(String) method.

@see #state(String)"
, "deprecated" : false,
"documentation" : "<p>The state of the reserved Elasticsearch instance.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "state",
"fluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to state(String).

@see #state(String)"
, "deprecations" : false,
"endpointDiscoveryId" : false,
"route" : null,
"movie" : null,
"fluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to state(String).

@see #state(String)""}
"marshallLocationName" : "State",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "State",
"uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "State",
"sensitive" : false,
"setterDocumentation" : "\p The state of the reserved Elasticsearch instance.\p</p>\n@\param state The state of the reserved Elasticsearch instance.\n",
"setterMethodName" : "setState",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : "\p The state of the reserved Elasticsearch instance.\p",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
},
"beanStyleGetterMethodName" : "getPaymentOptionAsString",
"beanStyleSetterMethodName" : "setPaymentOption",
"c2jName" : "PaymentOption",
"c2jShape" : "ReservedElasticsearchInstancePaymentOption",
"defaultConsumerFluentSetterDocumentation" : "\p The payment option as defined in the reserved Elasticsearch instance offering.\p</p>\nThis is a convenience that creates an instance of the {\link String.Builder} avoiding the need to create one manually via {\link String#builder()}.\nWhen the {\link Consumer} completes, {\link String.Builder#build()} is called immediately and its result is passed to {\link #paymentOptionAsString(String)}.\n@\param paymentOption a consumer that will call methods on {\link String.Builder}.

String.Builder

@return Returns a reference to this object so that method calls can be chained together.

@see ReservedElasticsearchInstancePaymentOption

@deprecated

/**
 * The payment option as defined in the reserved Elasticsearch instance offering.
 */

@see ReservedElasticsearchInstancePaymentOption

public PaymentOption asString();

public void paymentOptionAsString(String paymentOption);
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "PaymentOption",
"sensitive" : false,
"setterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering.
@param paymentOption The payment option as defined in the reserved Elasticsearch instance offering.
@see ReservedElasticsearchInstancePaymentOption",
"setterMethodName" : "setPaymentOption",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : "The payment option as defined in the reserved Elasticsearch instance offering.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,

"beanStyleGetterMethodName" : "getRecurringCharges",
"beanStyleSetterMethodName" : "setRecurringCharges",
"c2jName" : "RecurringCharges",
"c2jShape" : "RecurringChargeList",
"defaultConsumerFluentSetterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.
This is a convenience that creates an instance of the {@link List<RecurringCharge>.Builder} avoiding the need to create one manually via {@link List<RecurringCharge>#builder()}. When the {@link Consumer} completes, {@link List<RecurringCharge>#builder()} is called immediately and its result is passed to {@link #recurringCharges(List<RecurringCharge>)}. 
@param recurringCharges a consumer that will call methods on
{@link List<RecurringCharge>.Builder} 
@return Returns a reference to this object so that method calls can be chained together.
@see #recurringCharges(List<RecurringCharge>)",

"deprecated" : false,
"documentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
The new value for the Member property for this object.

@return The value of the Member property for this object.
value for the Member property for this object.

setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "RecurringCharge",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "RecurringCharge",
"templateImplType" : "java.util.ArrayList<RecurringCharge>",
"templateType" : "java.util.List<RecurringCharge>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "RecurringCharges",
"sensitive" : false,
"setterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

@<p>The charge to your account regardless of whether you are creating any domains using the instance offering.

setterMethodName" : "setRecurringCharges",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<RecurringCharge>"
  "variableName" : "recurringCharges",
  "variableType" : "java.util.List<RecurringCharge>",
  "documentation" : null,
  "simpleType" : "List<RecurringCharge>",
  "variableSetterType" : "java.util.Collection<RecurringCharge>"
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ { 
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
  "c2jName" : "ReservedElasticsearchInstanceOfferingId",
  "c2jShape" : "GUID",
  "defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}. When the {@link Consumer} completes, it is called immediately and its result is passed to the constructor of the Elasticsearch instance offering identifier.

@see #reservedElasticsearchInstanceOfferingId(String)",
  "deprecated" : false,
  "documentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
  "fluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>
@return The Elasticsearch reserved instance offering identifier.
@see #reservedElasticsearchInstanceOfferingId(String)",
  "getterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>",
  "getterModel" : { 
    "returnType" : "String",
    "documentation" : null
  },
  "http" : { 
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
  },
"marshallLocation": "PAYLOAD",
"marshallLocationName": "ReservedElasticsearchInstanceOfferingId",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ReservedElasticsearchInstanceOfferingId",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservedElasticsearchInstanceOfferingId",
"sensitive": false,
"setterDocumentation": "<p>The Elasticsearch reserved instance offering identifier.</p>
@param reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier.",
"setterMethodName": "setReservedElasticsearchInstanceOfferingId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": "<p>The Elasticsearch reserved instance offering identifier.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
{"beanStyleGetterMethodName": "getElasticsearchInstanceTypeAsString",
"beanStyleSetterMethodName": "setElasticsearchInstanceType",
"c2jName": "ElasticsearchInstanceType",
"c2jShape": "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation": "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()].

When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [String.Builder#build()]
#elasticsearchInstanceTypeAsString(String)

@ see #elasticsearchInstanceType(String)

"deprecated" : false,
"documentation" : "The Elasticsearch instance type offered by the reserved instance offering."},
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceType",
"fluentEnumSetterMethodName" : "elasticsearchInstanceType",
"fluentGetterMethodName" : "elasticsearchInstanceTypeAsString",
"fluentSetterDocumentation" : "The Elasticsearch instance type offered by the reserved instance offering.

|param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.

@ see ESPartitionInstanceType

@return Returns a reference to this object so that method calls can be chained together.

@ see ESPartitionInstanceType",
"fluentSetterMethodName" : "elasticsearchInstanceType",
"getterDocumentation" : "The Elasticsearch instance type offered by the reserved instance offering.

If the service returns an enum value that is not available in the current SDK version, @ link #elasticsearchInstanceType will return @ link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION. The raw value returned by the service is available from @ link #elasticsearchInstanceTypeAsString

|returnModel : |
|"returnType" : "String",
"documentation" : null |

|http : |
|"additionalMarshallingPath" : null,
|"additionalUnmarshallingPath" : null,
|"flattened" : false,
|"greedy" : false,
|"header" : false,
|"isPayload" : false,
|"isStreaming" : false,
|"location" : null,
|"marshallLocation" : "PAYLOAD",
|"marshallLocationName" : "ElasticsearchInstanceType",
|"queryString" : false,
|"statusCode" : false,
|"unmarshallLocationName" : "ElasticsearchInstanceType",
|"uri" : false |

|idempotencyToken" : false,
|"isBinary" : false,
|"jsonValue" : false,
|"list" : false,
|"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchInstanceType",
"sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.
@see ESPartitionInstanceType",
"setterMethodName" : "setElasticsearchInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getDuration",
  "beanStyleSetterMethodName" : "setDuration",
  "c2jName" : "Duration",
  "c2jShape" : "Integer",
  "defaultConsumerFluentSetterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Integer.Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #duration(Integer)}. a duration a consumer that will call methods on {@link Integer.Builder} a return
Returns a reference to this object so that method calls can be chained together.
@deprecated" : false,
  "documentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "duration",
"fluentSetterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>\n@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "duration",
"getterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>\n@return The duration, in seconds, for which the offering will reserve the Elasticsearch instance.",
"getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Duration",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Duration",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null
,"marshallingType" : "INTEGER",
"name" : "Duration",
"setterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>\n@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance.",
"setterMethodName" : "setDuration",
"setterModel" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "duration",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"}
The duration, in seconds, for which the offering will reserve the Elasticsearch instance.\n
The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. This is a convenience that creates an instance of the `{@link Double.Builder} avoiding the need to create one manually via `{@link Double#builder()}.\n
When the `{@link Consumer} completes, `{@link Double.Builder#build()} is called immediately and its result is passed to `{@link #fixedPrice(Double)}`.\n
Returns a reference to this object so that method calls can be chained together.\n
The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n
The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n
Return a reference to this object so that method calls can be chained together.\n
The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n
The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n
The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "FixedPrice",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "FixedPrice",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "FixedPrice",
"setterDocumentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved
Elasticsearch instance offering. </p>\n@param fixedPrice The upfront fixed charge you will pay to purchase the
specific reserved Elasticsearch instance offering.",
"setterMethodName" : "setFixedPrice",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "fixedPrice",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "fixedPrice",
  "variableType" : "Double",
  "documentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch
instance offering. </p>",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
The rate you are charged for each hour the domain that is using the offering is running.

This is a convenience that creates an instance of the `Double.Builder` avoiding the need to create one manually via `Double.builder()`. When the `Consumer` completes, `Double.Builder#build()` is called immediately and its result is passed to `#usagePrice(Double)`.

```java
@defaultConsumerFluentSetterDocumentation() @param usagePrice a consumer that will call methods on `Double.Builder`
@return Returns a reference to this object so that method calls can be chained together.
@see #usagePrice(Double)
```

The rate you are charged for each hour the domain that is using the offering is running.

```
@endpointDiscoveryId false,
@enumType null,
@eventHeader false,
@eventPayload false,
@fluentEnumGetterMethodName null,
@fluentEnumSetterMethodName null,
@fluentGetterMethodName usagePrice,
@fluentSetterMethodName usagePrice,
@fluentSetterDocumentation
```

```
The rate you are charged for each hour the domain that is using the offering is running.
@returns The rate you are charged for each hour the domain that is using the offering is running.
```

```
@getterModel {
  @returnType "Double",
  @documentation null
}

@http {
  @additionalMarshallingPath null,
  @additionalUnmarshallingPath null,
  @flattened false,
  @greedy false,
  @header false,
  @isPayload false,
  @isStreaming false,
  @location null,
  @marshallLocation "PAYLOAD",
  @marshallLocationName "UsagePrice",
  @queryString false,
  @statusCode false,
  @unmarshallLocationName "UsagePrice",
  @uri false
}
```
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "UsagePrice",
"sensitive" : false,
"setterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p><p>@param usagePrice The rate you are charged for each hour the domain that is using the offering is running.,”,
"setterMethodName" : "setUsagePrice",
"setterModel" : {
"variableDeclarationType" : "Double",
"variableName" : "usagePrice",
"variableType" : "Double",
"documentation" : null,
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Double",
"variableName" : "usagePrice",
"variableType" : "Double",
"documentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p",
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getCurrencyCode",
"beanStyleSetterMethodName" : "setCurrencyCode",
"c2jName" : "CurrencyCode",
"c2jShape" : "String",
"defaultValueConsumerFluentSetterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #currencyCode(String)}.

@see #currencyCode(String)
@deprecated" : false,
"documentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>";
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "currencyCode",
"fluentSetterDocumentation": "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param currencyCode The currency code for the reserved Elasticsearch instance offering.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "currencyCode",
"getterDocumentation": "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@return The currency code for the reserved Elasticsearch instance offering.",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "CurrencyCode",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "CurrencyCode",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "CurrencyCode",
"sensitive": false,
"setterDocumentation": "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param currencyCode The currency code for the reserved Elasticsearch instance offering.
@return The currency code for the reserved Elasticsearch instance offering.",
"setterMethodName": "setCurrencyCode",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "currencyCode"}
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
 "variableDeclarationType": "String",
 "variableName": "currencyCode",
 "variableType": "String",
 "documentation": "<p>The currency code for the reserved Elasticsearch instance offering.</p>",
 "simpleType": "String",
 "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getPaymentOptionAsString",
"beanStyleSetterMethodName": "setPaymentOption",
"c2jName": "PaymentOption",
"c2jShape": "ReservedElasticsearchInstancePaymentOption",
"defaultConsumerFluentSetterDocumentation": "<p>Payment option for the reserved Elasticsearch instance offering</p>
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String.Builder().]
When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #paymentOptionAsString(String)].

Returns a reference to this object so that method calls can be chained together.

@see #paymentOption(String)",
"deprecated": false,
"documentation": "<p>Payment option for the reserved Elasticsearch instance offering</p>",
"endpointDiscoveryId": false,
"enumType": "ReservedElasticsearchInstancePaymentOption",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "paymentOption",
"fluentEnumSetterMethodName": "paymentOption",
"fluentGetterMethodName": "paymentOptionAsString",
"fluentSetterDocumentation": "<p>Payment option for the reserved Elasticsearch instance offering</p>
@param paymentOption a consumer that will call methods on [link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see ReservedElasticsearchInstancePaymentOption",
"getterDocumentation": "<p>Payment option for the reserved Elasticsearch instance offering</p>
If the service returns an enum value that is not available in the current SDK version, [link #paymentOption] will return [link ReservedElasticsearchInstancePaymentOption#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [link #paymentOptionAsString].

Returns a reference to this object so that method calls can be chained together.
@see ReservedElasticsearchInstancePaymentOption",
"getterModel": {
"returnType" : "String",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "PaymentOption",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "PaymentOption",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "PaymentOption",
"sensitive" : false,
"setterDocumentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>
@param
paymentOption Payment option for the reserved Elasticsearch instance offering
@see
ReservedElasticsearchInstancePaymentOption",
"setterMethodName" : "setPaymentOption",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
],

"beanStyleGetterMethodName" : "getRecurringCharges",
"beanStyleSetterMethodName" : "setRecurringCharges",
"c2jName" : "RecurringCharges",
"c2jShape" : "RecurringChargeList",

"defaultConsumerFluentSetterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.
This is a convenience that creates an instance of the { @link List<RecurringCharge>.Builder} avoiding the need to create one manually via { @link List<RecurringCharge>#builder()}. When the { @link Consumer} completes, { @link List<RecurringCharge>.Builder#build()} is called immediately and its result is passed to { @link #recurringCharges(List<RecurringCharge>)}. When the method calls can be chained together.

@param recurringCharges a consumer that will call methods on
{ @link List<RecurringCharge>.Builder}.
@return Returns a reference to this object so that method calls can be chained together.
@see #recurringCharges(List<RecurringCharge>)",

"deprecated" : false,

"documentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return The charge to your account regardless of whether you are creating any domains using the instance offering.
@throws UnsupportedOperationException
@see #recurringCharges(List<RecurringCharge>)",

"endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "recurringCharges",

"fluentSetterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.
@return Returns a reference to this object so that method calls can be chained together.
@see #recurringCharges(List<RecurringCharge>)",

"fluentSetterMethodName" : "recurringCharges",

"getterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

@throws UnsupportedOperationException
@see #recurringCharges(List<RecurringCharge>)",

"getterModel" : {

"returnType" : "java.util.List<RecurringCharge>",

"documentation" : null
},

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : false,

"header" : false,

"isPayload" : false,

"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RecurringCharges",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RecurringCharges",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "RecurringCharge",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the [@link RecurringCharge.Builder] avoiding the need to create one manually via [@link RecurringCharge#builder()].
When the [@link Consumer] completes, [@link RecurringCharge.Builder#build()] is called immediately and its result is passed to [@link #member(RecurringCharge)].
@para param a consumer that will call methods on [@link RecurringCharge.Builder]@para return Returns a reference to this object so that method calls can be chained together.@para see [#member(RecurringCharge)]",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.
The new value for the Member property for this object.
@para return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.
The value of the Member property for this object.
@para return The value of the Member property for this object.",
"getterModel" : {
"returnType" : "RecurringCharge",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : "",
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"xmlnsNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "RecurringCharge",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "RecurringCharge",
"templateImplType" : "java.util.ArrayList<RecurringCharge>",
"templateType" : "java.util.List<RecurringCharge>"}
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "RecurringCharges",
"sensitive" : false,
"setterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.

@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering."
,"setterMethodName" : "setRecurringCharges",
"setterModel" : {
 "variableDeclarationType" : "java.util.List<RecurringCharge>",
 "variableName" : "recurringCharges",
 "variableType" : "java.util.List<RecurringCharge>",
 "documentation" : null,
 "simpleType" : "List<RecurringCharge>",
 "variableSetterType" : "java.util.Collection<RecurringCharge>"
 },
"simple" : false,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "java.util.List<RecurringCharge>",
 "variableName" : "recurringCharges",
 "variableType" : "java.util.List<RecurringCharge>",
 "documentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.

@p> The charge to your account regardless of whether you are creating any domains using the instance offering."
,"simpleType" : "List<RecurringCharge>",
 "variableSetterType" : "java.util.Collection<RecurringCharge>"
 },
"xmlNameSpaceUri" : null
]",
"membersAsMap" : {
 "CurrencyCode" : {
 "beanStyleGetterMethodName" : "getCurrencyCode",
 "beanStyleSetterMethodName" : "setCurrencyCode",
 "c2jName" : "CurrencyCode",
 "c2jShape" : "String",
 "defaultConsumerFluentSetterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.

This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].

When the [@link Consumer] completes, [@link

```java

```
String.Builder#build()} is called immediately and its result is passed to [@link #currencyCode(String)].
@param currencyCode a consumer that will call methods on [@link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #currencyCode(String)

"deprecated": false,
"documentation": "<p>The currency code for the reserved Elasticsearch instance offering. </p>",
"endpointDiscoveryId": false,
"eventType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "currencyCode",
"fluentSetterDocumentation": "<p>The currency code for the reserved Elasticsearch instance offering. </p>",
"fluentSetterMethodName": "currencyCode",
"getterDocumentation": "<p>The currency code for the reserved Elasticsearch instance offering. </p>",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "CurrencyCode",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "CurrencyCode",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "CurrencyCode",
"sensitive": false,
"setterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.
@param currencyCode The currency code for the reserved Elasticsearch instance offering.",
"setterMethodName" : "setCurrencyCode",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "currencyCode",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "currencyCode",
   "variableType" : "String",
   "documentation" : "The currency code for the reserved Elasticsearch instance offering.",
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"Duration" : {
   "beanStyleGetterMethodName" : "getDuration",
   "beanStyleSetterMethodName" : "setDuration",
   "c2jName" : "Duration",
   "c2jShape" : "Integer",
   "defaultConsumerFluentSetterDocumentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.
This is a convenience that creates an instance of the [@link Integer.Builder](#duration(Integer)) avoiding the need to create one manually via [@link Integer#builder()]. When the [@link Consumer](#duration(Integer)) completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link #duration(Integer)].

@see #duration(Integer)
@deprecated
@returns {@link Integer} Returns a reference to this object so that method calls can be chained together.
@see #duration(Integer)",
   "deprecated" : false,
   "documentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.
@see #duration(Integer)
@returns {@link Integer} Returns a reference to this object so that method calls can be chained together.
@see #duration(Integer)",
   "endpointDiscoveryId" : false,
   "enumType" : null,
   "eventHeader" : false,
   "eventPayload" : false,
   "fluentEnumGetterMethodName" : null,
   "fluentEnumSetterMethodName" : null,
   "fluentGetterMethodName" : "duration",
   "fluentSetterDocumentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.
@see #duration(Integer)
@returns {@link Integer} Returns a reference to this object so that method calls can be chained together.
@see #duration(Integer)",
   "fluentSetterMethodName" : "duration"
"getterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>\n\n@return The duration, in seconds, for which the offering will reserve the Elasticsearch instance.",
"getterModel" : {
   "returnType" : "Integer",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "Duration",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "Duration",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "Duration",
"sensitive" : false,
"setterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>\n\n@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance.",
"setterMethodName" : "setDuration",
"setterModel" : {
   "variableDeclarationType" : "Integer",
   "variableName" : "duration",
   "variableType" : "Integer",
   "documentation" : null,
   "simpleType" : "Integer",
   "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "Integer",}
"variableName" : "duration",
"variableType" : "Integer",
"documentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchInstanceType" : {
"beanStyleGetterMethodName" : "getElasticsearchInstanceTypeAsString",
"beanStyleSetterMethodName" : "setElasticsearchInstanceType",
"c2jName" : "ElasticsearchInstanceType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #elasticsearchInstanceTypeAsString(String)}.<p>@param elasticsearchInstanceType a consumer that will call methods on {@link String.Builder}@n@return Returns a reference to this object so that method calls can be chained together.@n@see #elasticsearchInstanceType(String)",
"deprecated" : false,
"documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceType",
"fluentEnumSetterMethodName" : "elasticsearchInstanceType",
"fluentGetterMethodName" : "elasticsearchInstanceTypeAsString",
"fluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
If the service returns an enum value that is not available in the current SDK version, {@link #elasticsearchInstanceType} will return {@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #elasticsearchInstanceTypeAsString}.<p>@return The Elasticsearch instance type offered by the reserved instance offering.@n@see ESPartitionInstanceType",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
}
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchInstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchInstanceType",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchInstanceType",
"sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.@see ESPartitionInstanceType",
"setterMethodName" : "setElasticsearchInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"FixedPrice" : {

"beanStyleGetterMethodName" : "getFixedPrice",
"beanStyleSetterMethodName" : "setFixedPrice",
"c2jName" : "FixedPrice",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. </p>
This is a convenience that creates an instance of the {@link Double.Builder} avoiding the need to create one manually via {@link Double#builder()}.<p>When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to the consumer that will call methods on a consumer that will call methods on { @link Double.Builder}.

@returns a reference to this object so that method calls can be chained together.

@see #fixedPrice(Double)",
"deprecated" : false,
"documentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. </p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "fixedPrice",
"fluentSetterDocumentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. </p>

@returns a reference to this object so that method calls can be chained together.

@see #fixedPrice(Double)",
"fluentSetterMethodName" : "fixedPrice",
"getterDocumentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. </p>

@returns The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

@returns The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

@returns The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

"getterModel" : {
    "returnType" : "Double",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "FixedPrice",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "FixedPrice",
    "uri" : false
}. 
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "FixedPrice",
"sensitive" : false,
"setterDocumentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. </p>
@param fixedPrice The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.",
"setterMethodName" : "setFixedPrice",
"setterModel" : {
"variableDeclarationType" : "Double",
"variableName" : "fixedPrice",
"variableType" : "Double",
"documentation" : null,
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Double",
"variableName" : "fixedPrice",
"variableType" : "Double",
"documentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. </p>",
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
"PaymentOption" : {
"beanStyleGetterMethodName" : "getPaymentOptionAsString",
"beanStyleSetterMethodName" : "setPaymentOption",
"c2jName" : "PaymentOption",
"c2jShape" : "ReservedElasticsearchInstancePaymentOption",
"defaultConsumerFluentSetterDocumentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #paymentOptionAsString(String)}.
@see #paymentOption(String)",
"deprecated" : false,
"documentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>",
"endpointDiscoveryId" : false,
"enumType" : "ReservedElasticsearchInstancePaymentOption",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "paymentOption",
"fluentEnumSetterMethodName" : "paymentOption",
"fluentGetterMethodName" : "paymentOptionAsString",
"fluentSetterDocumentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>
@param paymentOption Payment option for the reserved Elasticsearch instance offering
@see ReservedElasticsearchInstancePaymentOption
@return Returns a reference to this object so that method calls can be chained together.
@see ReservedElasticsearchInstancePaymentOption",
"fluentSetterMethodName" : "paymentOption",
"getterDocumentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>
If the service returns an enum value that is not available in the current SDK version, [@link paymentOption] will return [@link ReservedElasticsearchInstancePaymentOption#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link paymentOptionAsString].

@return Payment option for the reserved Elasticsearch instance offering
@see ReservedElasticsearchInstancePaymentOption",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "PaymentOption",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "PaymentOption",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "PaymentOption",
"sensitive" : false,
"setterDocumentation": "Payment option for the reserved Elasticsearch instance offering.\n@param paymentOption Payment option for the reserved Elasticsearch instance offering\n@see ReservedElasticsearchInstancePaymentOption",
"setterMethodName": "setPaymentOption",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "paymentOption",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "paymentOption",
"variableType": "String",
"documentation": "Payment option for the reserved Elasticsearch instance offering",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"RecurringCharges": {
"beanStyleGetterMethodName": "getRecurringCharges",
"beanStyleSetterMethodName": "setRecurringCharges",
"c2jName": "RecurringCharges",
"c2jShape": "RecurringChargeList",
"defaultConsumerFluentSetterDocumentation": "The charge to your account regardless of whether you are creating any domains using the instance offering.\nThis is a convenience that creates an instance of the \n{@link List<RecurringCharge>.Builder} avoiding the need to create one manually via \n{@link List<RecurringCharge>#builder()}\nWhen the {@link Consumer} completes, \n{@link List<RecurringCharge>.Builder#build()} is called immediately and its result is passed to \n{@link #recurringCharges(List<RecurringCharge>)}.\n\n@deprecated\n@param recurringCharges a consumer that will call methods on \n{@link List<RecurringCharge>.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #recurringCharges(List<RecurringCharge>)",
"documentation": "The charge to your account regardless of whether you are creating any domains using the instance offering.\nThis is a convenience that creates an instance of the \n{@link List<RecurringCharge>.Builder} avoiding the need to create one manually via \n{@link List<RecurringCharge>#builder()}\nWhen the {@link Consumer} completes, \n{@link List<RecurringCharge>.Builder#build()} is called immediately and its result is passed to \n{@link #recurringCharges(List<RecurringCharge>)}.\n\n@deprecated\n@param recurringCharges a consumer that will call methods on \n{@link List<RecurringCharge>.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #recurringCharges(List<RecurringCharge>)",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "recurringCharges",
"fluentSetterDocumentation": "The charge to your account regardless of whether you are creating any domains using the instance offering.\nThis is a convenience that creates an instance of the \n{@link List<RecurringCharge>.Builder} avoiding the need to create one manually via \n{@link List<RecurringCharge>#builder()}\nWhen the {@link Consumer} completes, \n{@link List<RecurringCharge>.Builder#build()} is called immediately and its result is passed to \n{@link #recurringCharges(List<RecurringCharge>)}.\n\n@deprecated\n@param recurringCharges a consumer that will call methods on \n{@link List<RecurringCharge>.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #recurringCharges(List<RecurringCharge>)"
domains using the instance offering.

@Param recurringCharges
The charge to your account regardless of whether you are creating any domains using the instance offering.

@Return
Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "recurringCharges",
"getterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@Return
The charge to your account regardless of whether you are creating any domains using the instance offering.

"getterModel" : {
  "returnType" : "java.util.List<RecurringCharge>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "RecurringCharges",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "RecurringCharges",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "RecurringCharge",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [RecurringCharge.Builder] avoiding the need to create one manually via [RecurringCharge#builder()]. When the [Consumer] completes, [RecurringCharge.Builder#build()] is called immediately and its result is passed to [RecurringCharge#member]. Returns a reference to this object so that method calls can be chained together.

@see #member",
  "deprecated" : false,
The new value for the Member property for this object.

@returns Returns a reference to this object so that method
calls can be chained together.

Sets the value of the Member property for this object.

@returns The value of the Member property for this object.

The new value for the Member property for this object.

Sets the value of the Member property for this object.

The new value for the Member property for this object.
"variableDeclarationType" : "RecurringCharge",
"variableName" : "member",
"variableType" : "RecurringCharge",
"documentation" : null,
"simpleType" : "RecurringCharge",
"variableSetterType" : "RecurringCharge"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "RecurringCharge",
"variableName" : "member",
"variableType" : "RecurringCharge",
"documentation" : null,
"simpleType" : "RecurringCharge",
"variableSetterType" : "RecurringCharge"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "RecurringCharge",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "RecurringCharge",
"templateImplType" : "java.util.ArrayList<RecurringCharge>",
"templateType" : "java.util.List<RecurringCharge>"}
],
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "RecurringCharges",
"sensitive" : false,
"setterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.",
"setterMethodName" : "setRecurringCharges",
"setterModel" : {
"variableDeclarationType" : "java.util.List<RecurringCharge>",
"variableName" : "recurringCharges",
"variableType" : "java.util.List<RecurringCharge>",
"documentation" : null,
"simpleType" : "List<RecurringCharge>",
"variableSetterType" : "java.util.Collection<RecurringCharge>
"},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.List<RecurringCharge>",
    "variableName" : "recurringCharges",
    "variableType" : "java.util.List<RecurringCharge>",
    "documentation" : "<p>The charge to your account regardless of whether you are creating any domains using
the instance offering.</p>",
    "simpleType" : "List<RecurringCharge>",
    "variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"xmlNameSpaceUri" : null
},

"ReservedElasticsearchInstanceOfferingId" : {
    "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
    "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
    "c2jName" : "ReservedElasticsearchInstanceOfferingId",
    "c2jShape" : "GUID",
    "defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder().}

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #reservedElasticsearchInstanceOfferingId(String)}.

@see #reservedElasticsearchInstanceOfferingId(String)"
    
    "deprecated" : false,
    "documentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
    "fluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>
    "gettersetterDocumentation" : null,
    "gettersetterMethod" : "reservedElasticsearchInstanceOfferingId",
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceOfferingId",
"sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>
@param reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier.",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UsagePrice" : {
  "beanStyleGetterMethodName" : "getUsagePrice",
  "beanStyleSetterMethodName" : "setUsagePrice",
  "c2jName" : "UsagePrice",
  "c2jShape" : "Double"}
"defaultConsumerFluentSetterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>
This is a convenience that creates an instance of the { @link Double.Builder} avoiding the need to create one manually via { @link Double#builder()}. When the { @link Consumer} completes, { @link Double.Builder#build()} is called immediately and its result is passed to { @link #usagePrice(Double)}.

When the { @link Consumer} completes, { @link Double.Builder#build()} is called immediately and its result is passed to { @link #usagePrice(Double)}.

@return Returns a reference to this object so that method calls can be chained together.

@see #usagePrice(Double)"

"deprecated" : false,
"documentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>

@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "usagePrice",
"fluentSetterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>

@param usagePrice The rate you are charged for each hour the domain that is using the offering is running.

@return Returns a reference to this object so that method calls can be chained together.

@see #usagePrice(Double)"

"fluentSetterMethodName" : "usagePrice",
"getterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>

@return The rate you are charged for each hour the domain that is using the offering is running.

@see #usagePrice(Double)"

"getterModel" : {
"returnType" : "Double",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UsagePrice",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UsagePrice",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "UsagePrice",
"sensitive" : false,

"setterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>
@param usagePrice The rate you are charged for each hour the domain that is using the offering is running.",

"setterMethodName" : "setUsagePrice",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
  "c2jName" : "ReservedElasticsearchInstanceOfferingId",
  "c2jShape" : "GUID",
  "defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #reservedElasticsearchInstanceOfferingId(String)}.
@see #reservedElasticsearchInstanceOfferingId(String)"
},

"deprecated" : false,
"documentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>", 
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>
@param reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"getterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>
@return The Elasticsearch reserved instance offering identifier.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceOfferingId",
"sensitive" : false,
"setterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>
@param reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier.
@return The Elasticsearch reserved instance offering identifier.",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "reservedElasticsearchInstanceOfferingId",
"variableType" : "String",
"documentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getElasticsearchInstanceTypeAsString",
"beanStyleSetterMethodName" : "setElasticsearchInstanceType",
"c2jName" : "ElasticsearchInstanceType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #elasticsearchInstanceTypeAsString(String)].\n\n@param elasticsearchInstanceType a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #elasticsearchInstanceType(String)",
"deprecated" : false,
"documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
"endpointDiscoveryId" : false,
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceType",
"fluentEnumSetterMethodName" : "elasticsearchInstanceType",
"fluentGetterMethodName" : "elasticsearchInstanceTypeAsString",
"fluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType",
"fluentSetterMethodName" : "elasticsearchInstanceType",
"getterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>\nIf the service returns an enum value that is not available in the current SDK version, [@link #elasticsearchInstanceType] will return {@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from [@link #elasticsearchInstanceTypeAsString].\n\n@returns The Elasticsearch instance type offered by the reserved instance offering.\n@see ESPartitionInstanceType",
"getterModel" : {
"returnType" : "String",
"simpleType" : "String",
"variableSetterType" : "String"}.
The Elasticsearch instance type offered by the reserved instance offering.

@see ESPartitionInstanceType
"variableSetterType" : "String",
},
"xmlNameSpaceUri" : null
],
{
  "beanStyleGetterMethodName" : "getDuration",
  "beanStyleSetterMethodName" : "setDuration",
  "c2jName" : "Duration",
  "c2jShape" : "Integer",
  "defaultConsumerFluentSetterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>
This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder() }. When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #duration(Integer)}.<p>@param duration a consumer that will call methods on { @link Integer.Builder}<p>@return Returns a reference to this object so that method calls can be chained together:<p>@see #duration(Integer)",
  "deprecated" : false,
  "documentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "duration",
  "fluentSetterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>
@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance.<p>@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "duration",
  "getterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>
@return The duration, in seconds, for which the offering will reserve the Elasticsearch instance.",
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Duration",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Duration",
  },
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "Duration",
"sensitive" : false,
"setterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance.",
"setterMethodName" : "setDuration",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getFixedPrice",
"beanStyleSetterMethodName" : "setFixedPrice",
"c2jName" : "FixedPrice",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. \nThis is a convenience that creates an instance of the \n@link Double.Builder\nby \nWhen the \n@link Double.Consumer\ncompletes, \n@link Double.Builder#build()\nis called immediately and its result is passed to \n@link \n fixedPrice(Double)\n\n@returns Returns a reference to this object so that method calls can be chained together.\n@see \n fixedPrice(Double)",
"deprecated" : false,
"documentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. \</p>",  
"endpointDiscoveryId" : false,  
"enumType" : null,  
"eventHeader" : false,  
"eventPayload" : false,  
"fluentEnumGetterMethodName" : null,  
"fluentEnumSetterMethodName" : null,  
"fluentGetterMethodName" : "fixedPrice",  
"fluentSetterDocumentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. \</p>\n@\param fixedPrice The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n@return Returns a reference to this object so that method calls can be chained together.",  
"fluentSetterMethodName" : "fixedPrice",  
"getterDocumentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. \</p>\n@return The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n",  
"getterModel" : {  
"returnType" : "Double",  
"documentation" : null  
},  
"http" : {  
"additionalMarshallingPath" : null,  
"additionalUnmarshallingPath" : null,  
"flattened" : false,  
"greedy" : false,  
"header" : false,  
"isPayload" : false,  
"isStreaming" : false,  
"location" : null,  
"marshallLocation" : "PAYLOAD",  
"marshallLocationName" : "FixedPrice",  
"queryString" : false,  
"statusCode" : false,  
"unmarshallLocationName" : "FixedPrice",  
"uri" : false  
},  
"idempotencyToken" : false,  
"isBinary" : false,  
"jsonValue" : false,  
"list" : false,  
"listModel" : null,  
"map" : false,  
"mapModel" : null,  
"marshallingType" : "DOUBLE",  
"name" : "FixedPrice",  
"sensitive" : false,  
"setterDocumentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n"}
The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

```json
"setterMethodName" : "setFixedPrice",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "fixedPrice",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "fixedPrice",
  "variableType" : "Double",
  "documentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null,
```

The rate you are charged for each hour the domain that is using the offering is running.

```json
"beanStyleGetterMethodName" : "getUsagePrice",
"beanStyleSetterMethodName" : "setUsagePrice",
"c2jName" : "UsagePrice",
"c2jShape" : "Double",
"defaultValue" : null,
"defaultConsumerFluentSetterDocumentation" : "The rate you are charged for each hour the domain that is using the offering is running.",
"deprecated" : false,
"documentation" : "The rate you are charged for each hour the domain that is using the offering is running.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "usagePrice",
"fluentSetterDocumentation" : "The rate you are charged for each hour the domain that is using the offering is running.",
"return" : null,
```

This is a convenience that creates an instance of the [{@link Double.Builder}] avoiding the need to create one manually via {@link Double#builder()}. When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to {@link #usagePrice(Double)}.

```java
@link Double.Builder
@link Double.Builder#build()
@link Double.Builder#build()
```

When the Consumer is completed, the method calls can be chained together.

```java
@link #usagePrice(Double)
```

```java
@link #usagePrice(Double)
```

The rate you are charged for each hour the domain that is using the offering is running.

```java
@link #usagePrice(Double)
```

The rate you are charged for each hour the domain that is using the offering is running.

```java
@link Double.Builder
```
"fluentSetterMethodName": "usagePrice",
"getterDocumentation": "\n<p>The rate you are charged for each hour the domain that is using the offering is running.</p>\n\n@return The rate you are charged for each hour the domain that is using the offering is running.\n",
"getterModel": {
"returnType": "Double",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "UsagePrice",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "UsagePrice",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "DOUBLE",
"name": "UsagePrice",
"sensitive": false,
"setterDocumentation": "\n<p>The rate you are charged for each hour the domain that is using the offering is running.</p>\n\n@param usagePrice The rate you are charged for each hour the domain that is using the offering is running.\n",
"setterMethodName": "setUsagePrice",
"setterModel": {
"variableDeclarationType": "Double",
"variableName": "usagePrice",
"variableType": "Double",
"documentation": null,
"simpleType": "Double",
"variableSetterType": "Double"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "Double",
"variableName": "usagePrice",
"variableType": "Double",
"documentation": null,
"simpleType": "Double",
"variableSetterType": "Double"
}
"variableDeclarationType" : "Double",
"variableName" : "usagePrice",
"variableType" : "Double",
"documentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>",
"simpleType" : "Double",
"variableSetterType" : "Double"
],
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getCurrencyCode",
"beanStyleSetterMethodName" : "setCurrencyCode",
"c2jName" : "CurrencyCode",
"c2jShape" : "String",
"defaultValueConsumerFluentSetterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
This is a convenience that creates an instance of the <a>String.Builder</a> avoiding the need to create one manually via <a>String.Builder()</a>. When the <a>Consumer</a> completes, <a>String.Builder#build()</a> is called immediately and its result is passed to <a>#currencyCode(String)</a>.

When the <a>Consumer</a> completes, <a>String.Builder#build()</a> is called immediately and its result is passed to <a>#currencyCode(String)</a>.

@param currencyCode a consumer that will call methods on <a>String.Builder</a>
@return Returns a reference to this object so that method calls can be chained together.
@see #currencyCode(String)",
"deprecated" : false,
"documentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "currencyCode",
"fluentSetterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param currencyCode The currency code for the reserved Elasticsearch instance offering.
@return Returns a reference to this object so that method calls can be chained together.
@see #currencyCode(String)",
"getterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@return The currency code for the reserved Elasticsearch instance offering.
@see #currencyCode(String)",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
}
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CurrencyCode",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CurrencyCode",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CurrencyCode",
"setterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param

"setterMethodName" : "setCurrencyCode",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getPaymentOptionAsString",
"beanStyleSetterMethodName" : "setPaymentOption",
"c2jName" : "PaymentOption",
"c2jShape" : "ReservedElasticsearchInstancePaymentOption",
"defaultConsumerFluentSetterDocumentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>

This is a convenience that creates an instance of the <link String.Builder> avoiding the need to create one manually via <link String.Builder>. When the <link Consumer> completes, <link String.Builder> is called immediately and its result is passed to <link String.Builder>
@param paymentOption a consumer that will call methods on {@link String.Builder}.
@return Returns a reference to this object so that method calls can be chained together.
@see #paymentOption(String)

deprecated" : false,
"documentation" : "&lt;p&gt;Payment option for the reserved Elasticsearch instance offering&lt;/p&gt;",
"enumType" : "ReservedElasticsearchInstancePaymentOption",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "paymentOption",
"fluentEnumSetterMethodName" : "paymentOption",
"fluentGetterMethodName" : "paymentOptionAsString",
"fluentSetterDocumentation" : "&lt;p&gt;Payment option for the reserved Elasticsearch instance offering&lt;/p&gt;"

If the service returns an enum value that is not available in the current SDK version, {@link #paymentOption} will return {@link ReservedElasticsearchInstancePaymentOption#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #paymentOptionAsString}.

"getterDocumentation" : "&lt;p&gt;Payment option for the reserved Elasticsearch instance offering&lt;/p&gt;"

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "PaymentOption",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "PaymentOption",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "PaymentOption",
"sensitive" : false,
"setterDocumentation" : "&lt;p&gt;Payment option for the reserved Elasticsearch instance offering&lt;/p&gt;&lt;param
paymentOption Payment option for the reserved Elasticsearch instance offering
@see ReservedElasticsearchInstancePaymentOption",
"setterMethodName" : "setPaymentOption",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "paymentOption",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
 },
 "simple" : true,
 "timestampFormat" : null,
 "variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "paymentOption",
 "variableType" : "String",
 "documentation" : "&lt;p&gt;Payment option for the reserved Elasticsearch instance offering&lt;/p&gt;",
 "simpleType" : "String",
 "variableSetterType" : "String"
 },
 "xmlNameSpaceUri" : null
}, {
 "beanStyleGetterMethodName" : "getRecurringCharges",
 "beanStyleSetterMethodName" : "setRecurringCharges",
 "c2jName" : "RecurringCharges",
 "c2jShape" : "RecurringChargeList",
 "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The charge to your account regardless of whether you are
creating any domains using the instance offering.&lt;/p&gt;&lt;br&gt;This is a convenience that creates an instance of the [{@link
List&lt;RecurringCharge&gt;}.Builder] avoiding the need to create one manually via [{@link
List&lt;RecurringCharge&gt;#builder()}].&lt;br&gt;When the [{@link Consumer} completes, [{@link
List&lt;RecurringCharge&gt;}.Builder#build()] is called immediately and its result is passed to [{@link
#recurringCharges(List&lt;RecurringCharge&gt;)].&lt;br&gt;@param recurringCharges a consumer that will call methods on
[{@link List&lt;RecurringCharge&gt;}.Builder]&lt;br&gt;@return Returns a reference to this object so that method calls can be
chained together.&lt;br&gt;@see #recurringCharges(List&lt;RecurringCharge&gt;)",
 "deprecated" : false,
 "documentation" : "&lt;p&gt;The charge to your account regardless of whether you are creating any domains using
the instance offering.&lt;/p&gt;",
 "endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringCharges",
"fluentSetterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.

@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.

@return Returns a reference to this object so that method calls can be chained together."
,
"fluentSetterMethodName" : "recurringCharges",
"getterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return The charge to your account regardless of whether you are creating any domains using the instance offering."
,
"getterModel" : {
  "returnType" : "java.util.List<RecurringCharge>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "RecurringCharges",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "RecurringCharges",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "RecurringCharge",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the { @link RecurringCharge.Builder } avoiding the need to create one manually via { @link RecurringCharge#builder() }. When the { @link Consumer } completes, { @link RecurringCharge.Builder#build() } is called immediately and its result is passed to { @link #member(RecurringCharge) }.

@param member a consumer that will call methods on { @link

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RecurringCharge.Builder\n\n@return Returns a reference to this object so that method calls can be chained
together.\n\n@see #member(RecurringCharge)

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : true,
"eventPayload" : true,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained
together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@return The value of
the Member property for this object.",
"getterModel" : {
  "returnType" : "RecurringCharge",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new
value for the Member property for this object.

setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "RecurringCharge",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "RecurringCharge",
"templateImplType" : "java.util.ArrayList<RecurringCharge>",
"templateType" : "java.util.List<RecurringCharge>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "RecurringCharges",
"sensitive" : false,
"setterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.

setterMethodName" : "setRecurringCharges",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<RecurringCharge>",
  "variableName" : "recurringCharges",
  "variableType" : "java.util.List<RecurringCharge>",
  "documentation" : null,
  "variableSetterType" : "java.util.Collection<RecurringCharge>"
The charge to your account regardless of whether you are creating any domains using the instance offering.

```java
public class ReservedElasticsearchInstanceOffering {
  // Fields, methods, etc.
}
```

```
public enum PaymentOption {
  ALL_UPFRONT
}
```
"deprecated" : false,
"documentation" : "An exception for creating a resource that already exists. Gives http status code of 400."},
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : "ResourceAlreadyExistsException",
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"httpStatusCode" : 409,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ResourceAlreadyExistsException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : { 
  "variableDeclarationType" : "ResourceAlreadyExistsException",
  "variableName" : "resourceAlreadyExistsException",
  "variableType" : "ResourceAlreadyExistsException",
  "documentation" : null,
  "simpleType" : "ResourceAlreadyExistsException",
  "variableSetterType" : "ResourceAlreadyExistsException"
},
"wrapper" : false
},
"ResourceNotFoundException" : {
  "c2jName" : "ResourceNotFoundException",
  "customization" : { 
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status code of 400."},
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : "ResourceNotFoundException",
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 409,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ResourceNotFoundException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "ResourceNotFoundException",
  "variableName" : "resourceNotFoundException",
  "variableType" : "ResourceNotFoundException",
  "documentation" : null,
  "dataType" : "ResourceNotFoundException",
  "variableSetterType" : "ResourceNotFoundException"
},
"wrapper" : false
},
"ServiceSoftwareOptions" : {
  "c2jName" : "ServiceSoftwareOptions",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "The current options of an Elasticsearch domain service software options.",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getCurrentVersion",
  "beanStyleSetterMethodName" : "setCurrentVersion",
  "c2jName" : "CurrentVersion",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "<p>The current service software version that is present on the domain.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #currentVersion(String)}.<p>@param currentVersion a consumer that will call methods on {@link String.Builder}</p><p>@return Returns a reference to this object so that method calls can be chained together.</p>
@see #currentVersion(String)",
  "deprecated" : false,
  "documentation" : "<p>The current service software version that is present on the domain.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "currentVersion",
  "fluentSetterDocumentation" : "<p>The current service software version that is present on the domain.</p>
@param currentVersion The current service software version that is present on the domain.<p>@return Returns a reference to this object so that method calls can be chained together.</p>",
  "fluentSetterMethodName" : "currentVersion",
  "getterDocumentation" : "<p>The current service software version that is present on the domain.</p>
@return The current service software version that is present on the domain.<p>@return The current service software version that is present on the domain.</p>",
  "getterModel" : { "returnType" : "String",
    "documentation" : null
  },
  "http" : { "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "CurrentVersion",
    "queryString" : false,
    "statusCode" : false,
    "statusCodeMember" : false,
    "unmarshallLocationName" : "CurrentVersion",
},}
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CurrentVersion",
"sensitive" : false,
"setterDocumentation" : "<p>The current service software version that is present on the domain.</p>
@param
 currentVersion The current service software version that is present on the domain.",
"setterMethodName" : "setCurrentVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "currentVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "currentVersion",
  "variableType" : "String",
  "documentation" : "<p>The current service software version that is present on the domain.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getNewVersion",
"beanStyleSetterMethodName" : "setNewVersion",
"c2jName" : "NewVersion",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The new service software version if one is available.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.
When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #newVersion(String)}. "@param
 newVersion a consumer that will call methods on {@link String.Builder}@n@return Returns a reference to this object so that method calls can be chained together." @see #newVersion(String)",
"deprecated" : false,
"documentation" : "<p>The new service software version if one is available.</p>",
"endpointDiscoveryId" : false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "newVersion",
"fluentSetterDocumentation": "\<p\>The new service software version if one is available.\n\@param newVersion The new service software version if one is available.\n\@return Returns a reference to this object so that method calls can be chained together.\",
"fluentSetterMethodName": "newVersion",
"getterDocumentation": "\<p\>The new service software version if one is available.\n\@return The new service software version if one is available.\",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "NewVersion",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "NewVersion",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NewVersion",
"sensitive": false,
"setterDocumentation": "\<p\>The new service software version if one is available.\n\@param newVersion The new service software version if one is available.\",
"setterMethodName": "setNewVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "newVersion"}
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "newVersion",
  "variableType" : "String",
  "documentation" : "The new service software version if one is available.
  &lt;p&gt;The new service software version if one is available.&lt;/p&gt;",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpdateAvailable",
"beanStyleSetterMethodName" : "setUpdateAvailable",
"c2jName" : "UpdateAvailable",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;&lt;hr&gt;&lt;p&gt;This is a convenience that creates an instance of the [link Boolean.Builder] avoiding the need to create one manually via [link Boolean#builder()]. When the [link Consumer] completes, [link Boolean.Builder#build()] is called immediately and its result is passed to [link #updateAvailable(Boolean)]&lt;/p&gt;&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;\n@see #updateAvailable(Boolean)"
,  "deprecated" : false,
  "documentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateAvailable",
"fluentSetterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;&lt;hr&gt;&lt;p&gt;\n@see #updateAvailable(Boolean)\n\n@return Returns a reference to this object so that method calls can be chained together."
,  "getterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;
@see #updateAvailable(Boolean)\n\n@return Returns a reference to this object so that method calls can be chained together."
,  "getterModel" : {
    "returnType" : "Boolean",
    "getterSetterMethodName" : null
  }
}
"documentation" : null,
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpdateAvailable",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpdateAvailable",
  "uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "UpdateAvailable",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "updateAvailable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"setterDocumentation" : "<p><code>True</code> if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. <code>True</code> if you are able to update you service software version. <code>False</code>",
"setterMethodName" : "setUpdateAvailable",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "updateAvailable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
}
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getCancellable",
"beanStyleSetterMethodName": "setCancellable",
"c2jName": "Cancellable",
"c2jShape": "Boolean",
"defaultConsumerFluentSetterDocumentation": "\n**<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.\n</p>\n\nWhen the \[@link Consumer\] completes, \[@link Boolean.Builder\] is called immediately and its result is passed to \[@link #cancellable(Boolean)\].\n\n@param cancellable a consumer that will call methods on \[@link Boolean.Builder\]\n\n@see #cancellable(Boolean)",
"deprecated": false,
"documentation": "\n**<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.\n</p>\n\nWhen the \[@link Consumer\] completes, \[@link Boolean.Builder\] is called immediately and its result is passed to \[@link #cancellable(Boolean)\].\n\n@param cancellable a consumer that will call methods on \[@link Boolean.Builder\]\n\n@see #cancellable(Boolean)"
,"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "cancellable",
"fluentSetterDocumentation": "\n**<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.\n</p>\n\n>Returns a reference to this object so that method calls can be chained together.\n\n@see #cancellable(Boolean)",
"fluentSetterMethodName": "cancellable",
"getterDocumentation": "\n**<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.\n</p>\n\n>Returns a reference to this object so that method calls can be chained together.\n\n@see #cancellable(Boolean)",
"getterModel": {
  "returnType": "Boolean",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
"
"marshallLocationName": "Cancellable",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Cancellable",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "Cancellable",
"sensitive": false,
"setterDocumentation": 
<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version update. </p>
@param cancellable
<br/>
True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version update. 

"setterMethodName": "setCancellable",
"setterModel": {
  "variableDeclarationType": "Boolean",
  "variableName": "cancellable",
  "variableType": "Boolean",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "cancellable",
  "variableType": "Boolean",
  "documentation": 
<p><code>True</code> if you are able to cancel your service software version update. 
<br/>
False</code> if you are not able to cancel your service software version. </p>
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
}, {
  "beanStyleGetterMethodName": "getUpdateStatusAsString",
  "beanStyleSetterMethodName": "setUpdateStatus",
  "c2jName": "UpdateStatus",
  "c2jShape": "DeploymentStatus",
  "defaultConsumerFluentSetterDocumentation": 
<p>The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. </p>
This
is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the Consumer completes, the build() is called immediately and its result is passed to
{@link #updateStatusAsString(String)}. param updateStatus is a consumer that will call methods on the String.Builder
@return Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "The status of your service software update. This field can take the following values:
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
When the Consumer completes, the String.Builder is called immediately and its result is passed to
{@link #updateStatusAsString(String)}.

"endpointDiscoveryId" : false,
"enumType" : "DeploymentStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "updateStatus",
"fluentEnumSetterMethodName" : "updateStatus",
"fluentGetterMethodName" : "updateStatusAsString",
"fluentSetterDocumentation" : "The status of your service software update. This field can take the following values:
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
If the service returns an enum value that is not available in the current SDK version, @link DeploymentStatus#UNKNOWN_TO_SDK_VERSION will return.

"getterDocumentation" : "The status of your service software update. This field can take the following values:
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
If the service returns an enum value that is not available in the current SDK version, @link DeploymentStatus#UNKNOWN_TO_SDK_VERSION will return.

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateStatus",
"deprecated" : false,
"documentation" : "The status of your service software update. This field can take the following values:
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
When the Consumer completes, the String.Builder is called immediately and its result is passed to
{@link #updateStatusAsString(String)}.

"endpointDiscoveryId" : false,
"enumType" : "DeploymentStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "updateStatus",
"fluentEnumSetterMethodName" : "updateStatus",
"fluentGetterMethodName" : "updateStatusAsString",
"fluentSetterDocumentation" : "The status of your service software update. This field can take the following values:
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
If the service returns an enum value that is not available in the current SDK version, @link DeploymentStatus#UNKNOWN_TO_SDK_VERSION will return.

"getterDocumentation" : "The status of your service software update. This field can take the following values:
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
If the service returns an enum value that is not available in the current SDK version, @link DeploymentStatus#UNKNOWN_TO_SDK_VERSION will return.

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateStatus",
"deprecated" : false,
"documentation" : "The status of your service software update. This field can take the following values:
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
When the Consumer completes, the String.Builder is called immediately and its result is passed to
{@link #updateStatusAsString(String)}.

"endpointDiscoveryId" : false,
"enumType" : "DeploymentStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "updateStatus",
"fluentEnumSetterMethodName" : "updateStatus",
"fluentGetterMethodName" : "updateStatusAsString",
"fluentSetterDocumentation" : "The status of your service software update. This field can take the following values:
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
If the service returns an enum value that is not available in the current SDK version, @link DeploymentStatus#UNKNOWN_TO_SDK_VERSION will return.

"getterDocumentation" : "The status of your service software update. This field can take the following values:
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
If the service returns an enum value that is not available in the current SDK version, @link DeploymentStatus#UNKNOWN_TO_SDK_VERSION will return.

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateStatus",}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpdateStatus",
"sensitive" : false,
"setterDocumentation" : "<p>The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.\n@param updateStatus The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.\n@see DeploymentStatus",
"setterMethodName" : "setUpdateStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "updateStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "updateStatus",
  "variableType" : "String",
  "documentation" : "<p>The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.\n@see DeploymentStatus</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getDescription",
 "beanStyleSetterMethodName" : "setDescription",
 "c2jName" : "Description",
 "c2jShape" : "String",}
"defaultConsumerFluentSetterDocumentation" : "<p>The description of the <code>UpdateStatus</code>.</p>
This is a convenience that creates an instance of the <code>@link String.Builder</code> avoiding the need to create one manually via <code>@link String#builder()</code>. When the <code>@link Consumer</code> completes, <code>@link String.Builder#build()</code> is called immediately and its result is passed to <code>@link #description(String)</code>.<br/>
@param description a consumer that will call methods on <code>@link String.Builder</code>
@return
Returns a reference to this object so that method calls can be chained together.<br/>
@see #description(String)",
"deprecated" : false,
"documentation" : "<p>The description of the <code>UpdateStatus</code>.</p>
@endpointDiscoveryId" : false,
"enumType" : null,
"eventId" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "description",
"fluentSetterDocumentation" : "<p>The description of the <code>UpdateStatus</code>.</p>
@param description The description of the <code>UpdateStatus</code>.
@return Returns a reference to this object so that method calls can be chained together.
@see #description(String)",
"fluentSetterMethodName" : "description",
"getterDocumentation" : "<p>The description of the <code>UpdateStatus</code>.</p>
@return The description of the <code>UpdateStatus</code>.
getterModel" : {
 "returnType" : "String",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "Description",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "Description",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Description",
"sensitive" : false,
"setterDocumentation" : "<p>The description of the <code>UpdateStatus</code>.\n@p>\n@param description The description of the <code>UpdateStatus</code>.\n@p>
"setterMethodName" : "setDescription",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "description",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "description",
  "variableType" : "String",
  "documentation" : "<p>The description of the <code>UpdateStatus</code>.\n@p>
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getAutomatedUpdateDate",
  "beanStyleSetterMethodName" : "setAutomatedUpdateDate",
  "c2jName" : "AutomatedUpdateDate",
  "c2jShape" : "DeploymentCloseDateTimeStamp",
  "defaultConsumerFluentSetterDocumentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.\n|\nThis is a convenience that creates an instance of the [@link Instant.Builder] avoiding the need to create one manually via [@link Instant#builder()].\nWhen the [@link Consumer] completes, [@link Instant.Builder#build()] is called immediately and its result is passed to [@link #automatedUpdateDate(Instant)].\n@p>@param automatedUpdateDate a consumer that will call methods on [@link Instant.Builder]\n@p>@return Returns a reference to this object so that method calls can be chained together.\n@see #automatedUpdateDate(Instant)",
  "deprecated" : false,
  "documentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.\n|\n"endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "automatedUpdateDate",
  "fluentSetterDocumentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service
software update. After this date, we automatically update your service software.

```java
@param
automatedUpdateDate Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

@return
Returns a reference to this object so that method calls can be chained together.
```

```java
"fluentSetterMethodName" : "automatedUpdateDate",
"getterDocumentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>

@return Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.
```

```java
"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AutomatedUpdateDate",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AutomatedUpdateDate",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "AutomatedUpdateDate",
"sensitive" : false,
"setterDocumentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>

@param
automatedUpdateDate Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

@return
Returns a reference to this object so that method calls can be chained together.
```

```java
"setterMethodName" : "setAutomatedUpdateDate",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "automatedUpdateDate",
  "variableType" : "java.time.Instant",
```

---

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"documentation": null,
"simpleType": "Instant",
"variableSetterType": "java.time.Instant"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "automatedUpdateDate",
  "variableType": "java.time.Instant",
  "documentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>",
  "simpleType": "Instant",
  "variableSetterType": "java.time.Instant"
},
"xmlNameSpaceUri": null
],
"membersAsMap": {
  "AutomatedUpdateDate": {
    "beanStyleGetterMethodName": "getAutomatedUpdateDate",
    "beanStyleSetterMethodName": "setAutomatedUpdateDate",
    "c2jName": "AutomatedUpdateDate",
    "c2jShape": "DeploymentCloseDateTimeStamp",
    "defaultConsumerFluentSetterDocumentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>\nThis is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via {@link Instant.Builder#build()}.
\nWhen the {@link Consumer} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to {@link Instant#automatedUpdateDate(Instant)}.
\n@see #automatedUpdateDate(Instant)",
  "deprecated": false,
  "documentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "automatedUpdateDate",
  "fluentSetterDocumentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>\n@see #automatedUpdateDate(Instant)",
  "getterDocumentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>\n@see #automatedUpdateDate(Instant)",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "automatedUpdateDate",
  "fluentSetterDocumentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>\n@see #automatedUpdateDate(Instant)",
  "getterDocumentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>\n@see #automatedUpdateDate(Instant)"}
software update. After this date, we automatically update your service software.\n
@return Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

"getterModel" : {
    "returnType" : "java.time.Instant",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "AutomatedUpdateDate",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "AutomatedUpdateDate",
    "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "INSTANT",

"name" : "AutomatedUpdateDate",

"setterDocumentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>

@param automatedUpdateDate Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

"setterMethodName" : "setAutomatedUpdateDate",

"setterModel" : {
    "variableDeclarationType" : "java.time.Instant",
    "variableName" : "automatedUpdateDate",
    "variableType" : "automatedUpdateDate",
    "documentation" : null,
    "simpleType" : "Instant",
    "variableSetterType" : "java.time.Instant"
},

"simple" : true,

"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.time.Instant",
    "variableName" : "automatedUpdateDate",
    "variableType" : "java.time.Instant",
    "documentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>",
    "simpleType" : "Instant",
    "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"Cancellable" : {
    "beanStyleGetterMethodName" : "getCancellable",
    "beanStyleSetterMethodName" : "setCancellable",
    "c2jName" : "Cancellable",
    "c2jShape" : "Boolean",
    "defaultConsumerFluentSetterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.</p>
    
    This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, ({@link Boolean.Builder#build()}) is called immediately and its result is passed to ({@link cancellable(Boolean)}). param cancellable a consumer that will call methods on ({@link Boolean.Builder})
    
    @return Returns a reference to this object so that method calls can be chained together.
    
    see cancellable(Boolean)",
    "deprecated" : false,
    "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.</p>
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    @param cancellable a consumer that will call methods on ({@link Boolean.Builder})
    
    @return Returns a reference to this object so that method calls can be chained together.
    
    see cancellable(Boolean)",
    "deprecated" : false,
    "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.</p>
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    @param cancellable a consumer that will call methods on ({@link Boolean.Builder})
    
    @return Returns a reference to this object so that method calls can be chained together.
    
    see cancellable(Boolean)",
    "deprecated" : false,
    "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.</p>
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    @param cancellable a consumer that will call methods on ({@link Boolean.Builder})
    
    @return Returns a reference to this object so that method calls can be chained together.
    
    see cancellable(Boolean)",
    "deprecated" : false,
    "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.</p>
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    @param cancellable a consumer that will call methods on ({@link Boolean.Builder})
    
    @return Returns a reference to this object so that method calls can be chained together.
    
    see cancellable(Boolean)",
    "deprecated" : false,
    "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.</p>
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    @param cancellable a consumer that will call methods on ({@link Boolean.Builder})
    
    @return Returns a reference to this object so that method calls can be chained together.
    
    see cancellable(Boolean)",
    "deprecated" : false,
    "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.</p>
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    @param cancellable a consumer that will call methods on ({@link Boolean.Builder})
    
    @return Returns a reference to this object so that method calls can be chained together.
    
    see cancellable(Boolean)",
    "deprecated" : false,
    "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.</p>
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    @param cancellable a consumer that will call methods on ({@link Boolean.Builder})
    
    @return Returns a reference to this object so that method calls can be chained together.
    
    see cancellable(Boolean)",
    "deprecated" : false,
    "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.</p>
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    @param cancellable a consumer that will call methods on ({@link Boolean.Builder})
    
    @return Returns a reference to this object so that method calls can be chained together.
    
    see cancellable(Boolean)",
    "deprecated" : false,
    "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.</p>
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
    
    @param cancellable a consumer that will call methods on ({@link Boolean.Builder})
    
    @return Returns a reference to this object so that method calls can be chained together.
    
    see cancellable(Boolean)",
    "deprecated" : false,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Cancellable",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Cancellable",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Cancellable",
"setterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>
@param cancellable True </code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.

"setterMethodName" : "setCancellable",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "cancellable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "cancellable",
  "variableType" : "Boolean",
  "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>
@param cancellable True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.

"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null}
"CurrentVersion" : { 
"beanStyleGetterMethodName" : "getCurrentVersion",
"beanStyleSetterMethodName" : "setCurrentVersion",
"c2jName" : "CurrentVersion",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The current service software version that is present on
the domain.</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to
create one manually via { @link String.Builder}. When the { @link Consumer} completes, { @link
String.Builder#build()} is called immediately and its result is passed to { @link #currentVersion(String)}. 
@see #currentVersion(String)",

"deprecated" : false,
"documentation" : "<p>The current service software version that is present on the domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "currentVersion",
"fluentSetterDocumentation" : "<p>The current service software version that is present on the
domain.</p>
@return Returns a reference to this object so that method calls can be chained together.
@see #currentVersion(String)",

"idempotencyToken" : false,
"isBinary" : false,
"packageImported" : false,
"packageUnimported" : false,
"marshallLocationName" : "CurrentVersion",
"returnType" : "String",
"shapeName" : "CurrentVersion",
"shapeType" : "simple",
"simpleType" : "String",
"unmarshallLocationName" : "CurrentVersion",
"uri" : false
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CurrentVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CurrentVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "CurrentVersion",
"sensitive": false,
"setterDocumentation": "<p>The current service software version that is present on the
domain.</p>
@param currentVersion The current service software version that is present on the domain.",
"setterMethodName": "setCurrentVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "currentVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "currentVersion",
  "variableType": "String",
  "documentation": "<p>The current service software version that is present on the domain.</p>
","simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"Description": {
  "beanStyleGetterMethodName": "getDescription",
  "beanStyleSetterMethodName": "setDescription",
  "c2jName": "Description",
  "c2jShape": "String",
  "defaultConsumerFluentSetterDocumentation": "<p>The description of the<code>UpdateStatus</code>.</p>
This is a convenience that creates an instance of the {@link String.Builder}
avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes,{@link String.Builder#build()} is called immediately and its result is passed to {@link #description(String)}.
@return Returns a reference to this object so that method calls can be chained together.\n@see #description(String)
","deprecated": false,
  "documentation": "<p>The description of the <code>UpdateStatus</code>.</p>",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "description",
"fluentSetterDocumentation" : "&lt;p&gt;The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;.&lt;/p&gt;&lt;p&gt;&lt;@param description The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;&lt;/p&gt;&lt;p&gt;&lt;return Returns a reference to this object so that method calls can be chained together.&lt;/p&gt;&lt;/p&gt;&lt;p&gt;&lt;@parameter name="description"&gt;The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;.&lt;/p&gt;&lt;p&gt;&lt;return The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;.&lt;/p&gt;&lt;p&gt;&lt;/p&gt;&lt;p&gt;&lt;getterModel" : {&gt;&lt;p&gt;&lt;returnType" : "String",&gt;&lt;documentation" : null
},
"http" : {&gt;&lt;p&gt;&lt;additionalMarshallingPath" : null,&gt;&lt;additionalUnmarshallingPath" : null,&gt;&lt;flattened" : false,&gt;&lt;greedy" : false,&gt;&lt;header" : false,&gt;&lt;isPayload" : false,&gt;&lt;isStreaming" : false,&gt;&lt;location" : null,&gt;&lt;marshallLocation" : "PAYLOAD",&gt;&lt;marshallLocationName" : "Description",&gt;&lt;queryString" : false,&gt;&lt;statusCode" : false,&gt;&lt;unmarshallLocationName" : "Description",&gt;&lt;uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",&gt;&lt;name" : "Description",&gt;&lt;documentation" : null,
"simpleType" : "String",&gt;&lt;/p&gt;&lt;p&gt;&lt;setterDocumentation" : "&lt;p&gt;The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;.&lt;/p&gt;&lt;p&gt;&lt;@param description The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;&lt;/p&gt;&lt;p&gt;&lt;return The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;.&lt;/p&gt;&lt;p&gt;&lt;/p&gt;&lt;p&gt;&lt;setterMethodName" : "setDescription",&gt;&lt;setterModel" : {&gt;&lt;variableDeclarationType" : "String",&gt;&lt;variableName" : "description",&gt;&lt;variableType" : "String",&gt;&lt;documentation" : null,
"simpleType" : "String",&gt;&lt;/p&gt;&lt;p&gt;The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;.&lt;/p&gt;&lt;p&gt;&lt;return The description of the &lt;code&gt;UpdateStatus&lt;/code&gt;.&lt;/p&gt;"}
"variableSetterType" : "String",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "description",
  "variableType" : "String",
  "documentation" : "<p>The description of the <code>UpdateStatus</code>.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"NewVersion" : {
  "beanStyleGetterMethodName" : "getNewVersion",
  "beanStyleSetterMethodName" : "setNewVersion",
  "c2jName" : "NewVersion",
  "c2jShape" : "String",
  "defaultValueConsumerFluentSetterDocumentation" : "<p>The new service software version if one is available.</p>
  <p>This is a convenience that creates an instance of the { @link String#builder() } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#builder() } is called immediately and its result is passed to { @link #newVersion(String) }. When the { @link String.Builder#build() } is called immediately and its result is passed to { @link #newVersion(String) }. When the { @link String.Builder#build() } is called immediately and its result is passed to { @link #newVersion(String) }.
  
  @param newVersion a consumer that will call methods on { @link String.Builder#build() } immediately and its result is passed to { @link #newVersion(String) }.
  @return Returns a reference to this object so that method calls can be chained together.
  @see #newVersion(String)",
  "deprecated" : false,
  "documentation" : "<p>The new service software version if one is available.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "newVersion",
  "fluentSetterDocumentation" : "<p>The new service software version if one is available.</p>
  @return Returns a reference to this object so that method calls can be chained together.
  @see #newVersion(String)",
  "getterDocumentation" : "<p>The new service software version if one is available.</p>
  @return The new service software version if one is available.
  @param newVersion The new service software version if one is available.
  @return Returns a reference to this object so that method calls can be chained together.
  @see #newVersion(String)",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NewVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NewVersion",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NewVersion",
"sensitive" : false,
"setterDocumentation" : "<p>The new service software version if one is available.</p>
@param newVersion The new service software version if one is available.",
"setterMethodName" : "setNewVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "newVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "newVersion",
  "variableType" : "String",
  "documentation" : "<p>The new service software version if one is available.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpdateAvailable" : {
  "beanStyleGetterMethodName" : "getUpdateAvailable",
  "beanStyleSetterMethodName" : "setUpdateAvailable",
"c2jName" : "UpdateAvailable",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;&lt;p&gt;This is a convenience that creates an instance of the [ @link Boolean.Builder] avoiding the need to create one manually via [ @link Boolean#builder()].&lt;/p&gt;&lt;p&gt;When the [ @link Consumer] completes, [ @link Boolean.Builder#build()] is called immediately and its result is passed to [ @link #updateAvailable(Boolean)].&lt;/p&gt;&lt;p&gt;@param updateAvailable a consumer that will call methods on [ @link Boolean.Builder]&lt;/p&gt;&lt;p&gt;@return Returns a reference to this object so that method calls can be chained together.&lt;/p&gt;&lt;p&gt;@see #updateAvailable(Boolean)",
"deprecated" : false,
"documentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;&quot;,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateAvailable",
"fluentSetterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;&lt;p&gt;@param updateAvailable True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;&lt;p&gt;@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "updateAvailable",
"getterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;&lt;p&gt;@return True&lt;/code&gt; if you are able to update you service software version. &lt;/p&gt;&lt;p&gt;@return False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;&lt;p&gt;@return False", 
"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallILocation" : "PAYLOAD",
"marshallILocationName" : "UpdateAvailable",
"queryString" : false,
"statusCode" : false,
"unmarshallILocationName" : "UpdateAvailable",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "UpdateAvailable",
"sensitive" : false,
"setterDocumentation" : "<p><code>True</code> if you are able to update your service software version. 
<code>False</code> if you are not able to update your service software version. 
\param updateAvailable 
True\code> if you are able to update you service software version. <code>False", 
"setterMethodName" : "setUpdateAvailable",
"setterModel" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "updateAvailable",
    "variableType" : "Boolean",
    "documentation" : null,
    "simpleType" : "Boolean",
    "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "updateAvailable",
    "variableType" : "Boolean",
    "documentation" : "<p><code>True</code> if you are able to update your service software version. 
<code>False</code> if you are not able to update your service software version. 
\param updateAvailable 
True\code> if you are able to update your service software version. 
<code>False", 
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"UpdateStatus" : {
    "beanStyleGetterMethodName" : "getUpdateStatusAsString",
    "beanStyleSetterMethodName" : "setUpdateStatus",
    "c2jName" : "UpdateStatus",
    "c2jShape" : "DeploymentStatus",
    "defaultConsumerFluentSetterDocumentation" : "<p>The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, 
<code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. 
\param updateStatus a consumer that will call methods on \link String.Builder\ avoiding the need to create one manually via \link String#builder()\n\nWhen the \link Consumer completes, \link String.Builder#build()\ is called immediately and its result is passed to \link UpdateStatusAsString\(\String\).\n\param updateStatus a consumer that will call methods on \link String.Builder\\n\return Returns a reference to this object so that method calls can be chained together.\n\see #updateStatus(String)",
"deprecated" : false,
"documentation": "The status of your service software update. This field can take the following values: 
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, 
<code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.",

"endpointDiscoveryId": false,
"enumType": "DeploymentStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "updateStatus",
"fluentEnumSetterMethodName": "updateStatus",
"fluentGetterMethodName": "updateStatusAsString",
"fluentSetterDocumentation": "The status of your service software update. This field can take the following values: 
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, 
<code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.@param updateStatus The status of your service software update. This field can take the following values: 
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, 
<code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.@see DeploymentStatus
@return Returns a reference to this object so that method calls can be chained together.@see DeploymentStatus",
"fluentSetterMethodName": "updateStatus",
"getterDocumentation": "The status of your service software update. This field can take the following values: 
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, 
<code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.\nIf the service returns an enum value that is not available in the current SDK version, [@link #updateStatus] will return [@link DeploymentStatus#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #updateStatusAsString].\n@return The status of your service software update. This field can take the following values: 
<code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, 
<code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.@see DeploymentStatus",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "UpdateStatus",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "UpdateStatus",
  "uri": false
}.
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpdateStatus",
"sensitive" : false,
"setterDocumentation" : "The status of your service software update. This field can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE.

@param updateStatus The status of your service software update. This field can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE.

@see DeploymentStatus",
"setterMethodName" : "setUpdateStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "updateStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "updateStatus",
  "variableType" : "String",
  "documentation" : "The status of your service software update. This field can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE.

When the Consumer completes, String

@defaultConsumerFluentSetterDocumentation" : "The current service software version that is present on the domain. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.Builder()

When the Consumer completes, String.

@link String.Builder"}
String.Builder#build()} is called immediately and its result is passed to {@link #currentVersion(String)}.

@param currentVersion a consumer that will call methods on {@link String.Builder}

@return Returns a reference to this object so that method calls can be chained together.

@see #currentVersion(String)
"setterDocumentation": "The current service software version that is present on the domain."

@param currentVersion The current service software version that is present on the domain.

"setterMethodName": "setCurrentVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "currentVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "currentVersion",
  "variableType": "String",
  "documentation": "The current service software version that is present on the domain."
},
"xmlNameSpaceUri": null
},
{
  "beanStyleGetterMethodName": "getNewVersion",
  "beanStyleSetterMethodName": "setNewVersion",
  "c2jName": "NewVersion",
  "c2jShape": "String",
  "defaultConsumerFluentSetterDocumentation": "The new service software version if one is available."

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.Builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to #newVersion(String). Returns a reference to this object so that method calls can be chained together.

@see #newVersion(String)

  "Deprecated": false,
  "documentation": "The new service software version if one is available."
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "newVersion",
  "fluentSetterDocumentation": "The new service software version if one is available."

The new service software version if one is available. Returns a reference to this object so that method calls can be chained together."

  "fluentSetterMethodName": "newVersion",
  "getterDocumentation": "The new service software version if one is available."
  "getterMethodName": "getNewVersion",
  "getterModel": {
    "variableDeclarationType": "String",
    "variableName": "newVersion",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
  },
  "simple": true,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "String",
    "variableName": "newVersion",
    "variableType": "String",
    "documentation": "The new service software version if one is available."
  },
  "xmlNameSpaceUri": null
}
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "NewVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "NewVersion",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NewVersion",
" sensitive" : false,
"setterDocumentation" : "<p>The new service software version if one is available.</p>
@param newVersion
The new service software version if one is available.",

"setterMethodName" : "setNewVersion",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "newVersion",
  "variableType" : "String",
  " documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "newVersion",
  "variableType" : "String",
  "documentation" : "<p>The new service software version if one is available.</p>",
"isBinary" : false,
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getUpdateAvailable",
"beanStyleSetterMethodName" : "setUpdateAvailable",
"c2jName" : "UpdateAvailable",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;\n\nThis is a convenience that creates an instance of the [@link Boolean.Builder] avoiding the need to create one manually via [@link Boolean.Builder#builder()].\n\nWhen the [@link Consumer] completes, [@link Boolean.Builder#build()] is called immediately and its result is passed to [@link #updateAvailable(Boolean)].\n\n@param updateAvailable a consumer that will call methods on [@link Boolean.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #updateAvailable(Boolean)",
"deprecated" : false,
"documentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version.\n\nFalse&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateAvailable",
"fluentSetterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;\n\n@param updateAvailable a consumer that will call methods on [@link Boolean.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #updateAvailable(Boolean)",
"getterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;
\n@return True&lt;/code&gt; if you are able to update you service software version. False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;
\n@return True&lt;/code&gt; if you are able to update you service software version. False&lt;/code&gt;",
"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",}
"marshallLocationName" : "UpdateAvailable",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateAvailable",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "UpdateAvailable",
"sensitive" : false,
"setterDocumentation" : "<p><code>True</code> if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. </p>
@param updateAvailable True if you are able to update you service software version. <code>False”,
"setterMethodName" : "setUpdateAvailable",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "updateAvailable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "updateAvailable",
  "variableType" : "Boolean",
  "documentation" : "<p><code>True</code> if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. </p>
False if you are not able to update your service software version. 
</p>”,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getCancellable",
  "beanStyleSetterMethodName" : "setCancellable",
  "c2jName" : "Cancellable",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
This is a convenience that creates an instance of the { @link Boolean.Builder } avoiding the need to create one
When the [@link Consumer] completes, [@link Boolean.Builder#build()] is called immediately and its result is passed to [@link cancellable(Boolean)].

@param cancellable a consumer that will call methods on [@link Boolean.Builder].
@return Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p> 

@end<p>

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cancellable",
"fluentSetterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p> 

@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "cancellable",
"getterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p> 

@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Cancellable",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Cancellable",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Cancellable",
"sensitive" : false,
"setterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>
@param cancellable
"setterMethodName" : "setCancellable",
"setterModel" : {
 "variableDeclarationType" : "Boolean",
 "variableName" : "cancellable",
 "variableType" : "Boolean",
 "documentation" : null,
 "simpleType" : "Boolean",
 "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "Boolean",
 "variableName" : "cancellable",
 "variableType" : "Boolean",
 "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>
"simpleType" : "Boolean",
 "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpdateStatusAsString",
"beanStyleSetterMethodName" : "setUpdateStatus",
"c2jName" : "UpdateStatus",
"c2jShape" : "DeploymentStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.</p>
This is a convenience that creates an instance of the <code>String.Builder</code> avoiding the need to create one manually via <code>String.Builder#builder()</code>. When the <code>Consumer</code> completes, <code>String.Builder#build()</code> is called immediately and its result is passed to <code>updateStatusAsString(String)</code>. Returns a reference to this object so that method calls can be chained together.
@see #updateStatus(String)
"deprecated" : false,
"documentation" : "The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
endpointDiscoveryId" : false,
"enumType" : "DeploymentStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "updateStatus",
"fluentEnumSetterMethodName" : "updateStatus",
"fluentGetterMethodName" : "updateStatusAsString",
"fluentSetterDocumentation" : "The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.\n@param updateStatus The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.\n@see DeploymentStatus\n@return Returns a reference to this object so that method calls can be chained together.\n@see DeploymentStatus",
"fluentSetterMethodName" : "updateStatus",
"getterDocumentation" : "The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. If the service returns an enum value that is not available in the current SDK version, {@link #updateStatus} will return {@link DeploymentStatus#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #updateStatusAsString}.\n@return The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.\n@see DeploymentStatus",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpdateStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpdateStatus",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpdateStatus",
"sensitive" : false,
"setterDocumentation" : "<p>The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.</p>
@param updateStatus The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>
@see DeploymentStatus",
"setterMethodName" : "setUpdateStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "updateStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "updateStatus",
  "variableType" : "String",
  "documentation" : "The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
@see #description(String)",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getDescription",
"beanStyleSetterMethodName" : "setDescription",
"c2jName" : "Description",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "The description of the <code>UpdateStatus</code>. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes,<{@link String.Builder#build()}> is called immediately and its result is passed to {@link #description(String)}. Returns a reference to this object so that method calls can be chained together.
@see #description(String)"
"deprecated" : false,
"documentation" : "The description of the <code>UpdateStatus</code>.
@endpointDiscoveryId" : false,
"enumType" : null,
"eventId" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "description",
"fluentSetterDocumentation" : 
  "The description of the <code>UpdateStatus</code>.\n  @param description The description of the <code>UpdateStatus</code>.\n  @return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "description",
"getterDocumentation" : 
  "The description of the <code>UpdateStatus</code>.\n  @return The description of the <code>UpdateStatus</code>.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Description",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Description",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Description",
"sensitive" : false,
"setterDocumentation" : 
  "The description of the <code>UpdateStatus</code>.\n  @param description The description of the <code>UpdateStatus</code>.\n  @return The description of the <code>UpdateStatus</code>.",
"setterMethodName" : "setDescription",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "description",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String"}
"variableSetterType" : "String",
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "description",
  "variableType" : "String",
  "documentation" : "The description of the <code>UpdateStatus</code>.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
}
},
  "beanStyleGetterMethodName" : "getAutomatedUpdateDate",
  "beanStyleSetterMethodName" : "setAutomatedUpdateDate",
  "c2jName" : "AutomatedUpdateDate",
  "c2jShape" : "DeploymentCloseDateTimeStamp",
  "defaultConsumerFluentSetterDocumentation" : "Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

This is a convenience that creates an instance of the [link Instant.Builder] avoiding the need to create one manually via [link Instant#builder()].

When the [link Consumer] completes, [link Instant.Builder#build()] is called immediately and its result is passed to [link automatedUpdateDate(Instant)],

A consumer that will call methods on [link Instant.Builder] is passed to this method, so that method calls can be chained together.

@see #automatedUpdateDate(Instant)",
  "deprecated" : false,
  "documentation" : "Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

This is a convenience that creates an instance of the [link Instant.Builder] avoiding the need to create one manually via [link Instant#builder()].

When the [link Consumer] completes, [link Instant.Builder#build()] is called immediately and its result is passed to [link automatedUpdateDate(Instant)],

A consumer that will call methods on [link Instant.Builder] is passed to this method, so that method calls can be chained together.

@see #automatedUpdateDate(Instant)",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "automatedUpdateDate",
  "fluentSetterMethodName" : "automatedUpdateDate",
  "fluentSetterDocumentation" : "Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

This is a convenience that creates an instance of the [link Instant.Builder] avoiding the need to create one manually via [link Instant#builder()].

When the [link Consumer] completes, [link Instant.Builder#build()] is called immediately and its result is passed to [link automatedUpdateDate(Instant)],

A consumer that will call methods on [link Instant.Builder] is passed to this method, so that method calls can be chained together.

@see #automatedUpdateDate(Instant)",
  "getterDocumentation" : "Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

This is a convenience that creates an instance of the [link Instant.Builder] avoiding the need to create one manually via [link Instant#builder()].

When the [link Consumer] completes, [link Instant.Builder#build()] is called immediately and its result is passed to [link automatedUpdateDate(Instant)],

A consumer that will call methods on [link Instant.Builder] is passed to this method, so that method calls can be chained together.

@see #automatedUpdateDate(Instant)",
  "getterModel" : {
    "returnType" : "java.time.Instant",
    "documentation" : null
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "AutomatedUpdateDate",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "AutomatedUpdateDate",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INSTANT",
"name": "AutomatedUpdateDate",
"setterDocumentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>\n@\n\n@param
automatedUpdateDate Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.",
"setterMethodName": "setAutomatedUpdateDate",
"setterModel": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "automatedUpdateDate",
  "variableType": "java.time.Instant",
  "documentation": null,
  "simpleType": "Instant",
  "variableSetterType": "java.time.Instant"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "automatedUpdateDate",
  "variableType": "java.time.Instant",
  "documentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>"
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
} ]
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ServiceSoftwareOptions",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"wrapper" : false
},
"SnapshotOptions" : {
  "c2jName" : "SnapshotOptions",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getAutomatedSnapshotStartHour",
  "beanStyleSetterMethodName" : "setAutomatedSnapshotStartHour",
  "c2jName" : "AutomatedSnapshotStartHour",
  "c2jShape" : "IntegerClass",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
  <p>This is a convenience that creates an instance of the [ @link Integer.Builder ] avoiding the need to create one manually via { @link Integer.Builder() }.</p>
  <p>When the [ @link Consumer ] completes, [ @link Integer.Builder#build() ] is called immediately and its result is passed to [ @link #automatedSnapshotStartHour(Integer) ].</p>
  <p>param automatedSnapshotStartHour a consumer that will call methods on [ @link Integer.Builder ] @return Returns a reference to this object so that method calls can be chained together.</p>
  <p>@see #automatedSnapshotStartHour(Integer)
  
  </p>
  "deprecated" : false,
  "documentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetMethodName" : "automatedSnapshotStartHour",
  "fluentSetterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
  <p>param automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
  <p>@return Returns a reference to this object so that method calls can be chained together.
  
  </p>
  "getterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : { 
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "AutomatedSnapshotStartHour",
  }
}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AutomatedSnapshotStartHour",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "AutomatedSnapshotStartHour",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>@param
automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.",
"setterMethodName" : "setAutomatedSnapshotStartHour",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "automatedSnapshotStartHour",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "automatedSnapshotStartHour",
  "variableType" : "Integer",
  "documentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "AutomatedSnapshotStartHour" : {
    "beanStyleGetterMethodName" : "getAutomatedSnapshotStartHour",
    "beanStyleSetterMethodName" : "setAutomatedSnapshotStartHour",
    "c2jName" : "AutomatedSnapshotStartHour",
    "c2jShape" : "IntegerClass",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the time, in UTC format, when the service
takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.

This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer.Builder#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #automatedSnapshotStartHour(Integer)}. @param automatedSnapshotStartHour a consumer that will call methods on {@link Integer.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #automatedSnapshotStartHour(Integer),

"deprecated" : false,
"documentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "automatedSnapshotStartHour",
"fluentSetterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
@param automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "automatedSnapshotStartHour",
"getterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
@return Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.",
"getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "AutomatedSnapshotStartHour",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "AutomatedSnapshotStartHour",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "AutomatedSnapshotStartHour",
"sensitive": false,

"setterDocumentation": "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
@param automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.",

"setterMethodName": "setAutomatedSnapshotStartHour",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "automatedSnapshotStartHour",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,

"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "automatedSnapshotStartHour",
  "variableType": "Integer",
  "documentation": "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
"simple": true,
"variableSetterType": "Integer"
},

"xmlNameSpaceUri": null
},

"nonStreamingMembers": [ {
  "beanStyleGetterMethodName": "getAutomatedSnapshotStartHour",
  "beanStyleSetterMethodName": "setAutomatedSnapshotStartHour",
  "c2jName": "AutomatedSnapshotStartHour",
  "c2jShape": "IntegerClass",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
"nonStreamingMembers": [ {
  "beanStyleGetterMethodName": "getAutomatedSnapshotStartHour",
  "beanStyleSetterMethodName": "setAutomatedSnapshotStartHour",
  "c2jName": "AutomatedSnapshotStartHour",
  "c2jShape": "IntegerClass",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
This is a convenience that creates an instance of the { @link Integer.Builder } avoiding the need to create one manually via { @link Integer#builder() }.\n\nWhen the { @link Consumer } completes, { @link Integer.Builder#build() } is called immediately and its result is passed to { @link #automatedSnapshotStartHour(Integer) }.\n\n@returns a reference to this object so that method calls can be chained
"dePRECATED" : false,
"documentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentMethodName" : "automatedSnapshotStartHour",
"fluentSetterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>\n@param automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "automatedSnapshotStartHour",
"getterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>\n@return Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours."
"getterModel" : {
 "returnType" : "Integer",
 "documentation" : null
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"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "AutomatedSnapshotStartHour",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "AutomatedSnapshotStartHour",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallerType": "INTEGER",
"name": "AutomatedSnapshotStartHour",
"sensitive": false,
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automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours."
"setterMethodName": "setAutomatedSnapshotStartHour",
"setterModel": {
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  "variableName": "automatedSnapshotStartHour",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
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"simple": true,
"timestampFormat": null,
"variable": {
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  "variableName": "automatedSnapshotStartHour",
  "variableType": "Integer",
  "documentation": "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>",
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
}]
"requestSignerAware": false,
"requestSignerClassFqn": null,
"required": null,
"shapeName": "SnapshotOptions",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
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"variable": {
  "variableDeclarationType": "SnapshotOptions",
  "variableName": "snapshotOptions",
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  "documentation": null,
  "simpleType": "SnapshotOptions",
  "variableSetterType": "SnapshotOptions"
},
"wrapper": false}
"SnapshotOptionsStatus" : {
  "c2jName" : "SnapshotOptionsStatus",
  "customization" : {
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    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Status of a daily automated snapshot.</p>",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [ {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "SnapshotOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain. This is a convenience that creates an instance of the {@link SnapshotOptions.Builder} avoiding the need to create one manually via {@link SnapshotOptions#builder()}. When the {@link Consumer} completes, {@link SnapshotOptions.Builder#build()} is called immediately and its result is passed to {@link #options(SnapshotOptions)}.<br>param options a consumer that will call methods on {@link SnapshotOptions.Builder}.<br>@return Returns a reference to this object so that method calls can be chained together.<br>@see #options(SnapshotOptions)"",
    "deprecated" : false,
    "documentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumgetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetMethodName" : "options",
    "fluentSetterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.<br>param options Specifies the daily snapshot options specified for the Elasticsearch domain.<br>@return Returns a reference to this object so that method calls can be chained together."",
    "fluentSetterMethodName" : "options",
  }
}
"getterDocumentation": "Specifies the daily snapshot options specified for the Elasticsearch domain."
@return Specifies the daily snapshot options specified for the Elasticsearch domain.
", "getterModel": { "returnType": "SnapshotOptions", "documentation": null }, "http": { "additionalMarshallingPath": null, "additionalUnmarshallingPath": null, "flattened": false, "greedy": false, "header": false, "isPayload": false, "isStreaming": false, "location": null, "marshallLocation": "PAYLOAD", "marshallLocationName": "Options", "queryString": false, "statusCode": false, "unmarshallLocationName": "Options", "uri": false }, "idempotencyToken": false, "isBinary": false, "JsonValue": false, "list": false, "ListModel": null, "map": false, "mapModel": null, "marshallingType": "SDK_POJO", "name": "Options", "sensitive": false, "setterDocumentation": "Specifies the daily snapshot options specified for the Elasticsearch domain."
@param options Specifies the daily snapshot options specified for the Elasticsearch domain.
", "setterMethodName": "setOptions", "setterModel": { "variableDeclarationType": "SnapshotOptions", "variableName": "options", "variableType": "SnapshotOptions", "documentation": null, "simpleType": "SnapshotOptions", "variableSetterType": "SnapshotOptions" }, "simple": false, "timestampFormat": null, "variable": { "variableDeclarationType": "SnapshotOptions", "variableName": "options",}
"variableType" : "SnapshotOptions",
"documentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
"simpleType" : "SnapshotOptions",
"variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
],
  
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus#builder()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link #status(OptionStatus)}. @param status a consumer that will call methods on {@link OptionStatus.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the status of a daily automated snapshot.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
@param status Specifies the status of a daily automated snapshot.@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>@return Specifies the status of a daily automated snapshot.

"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
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"http" : {
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  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>\n@param status Specifies the status of a daily automated snapshot.",
"setterMethodName" : "setStatus",
"setterModel" : {
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    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : null,
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : "<p>Specifies the status of a daily automated snapshot.</p>",
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
    "Options" : {
        "beanStyleGetterMethodName" : "getOptions",
        "beanStyleSetterMethodName" : "setOptions",
        "c2jName" : "Options",
        "c2jShape" : "SnapshotOptions",
        "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>\nThis is a convenience that creates an instance of the {} that avoids creating one manually via {}.\n\nWhen the {} completes, {} is called immediately and its result is passed to {}
#options(SnapshotOptions)

@link SnapshotOptions.Builder

@return Returns a reference to this object so that method calls can be chained together.

@see #options(SnapshotOptions)

"deprecated" : false,
"documentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
"endpointDiscoveryId" : null,
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"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>\n@param options Specifies the daily snapshot options specified for the Elasticsearch domain.
\n@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.
\n@return Specifies the daily snapshot options specified for the Elasticsearch domain.
",
"getterModel" : {
"returnType" : "SnapshotOptions",
"documentation" : null
},
"http" : {
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"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"sensitive" : false,
"setterDocumentation": "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>\n@\n@param options Specifies the daily snapshot options specified for the Elasticsearch domain.",
"setterMethodName": "setOptions",
"setterModel": {
  "variableDeclarationType": "SnapshotOptions",
  "variableName": "options",
  "variableType": "SnapshotOptions",
  "documentation": null,
  "simpleType": "SnapshotOptions",
  "variableSetterType": "SnapshotOptions"
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"simple": false,
"timestampFormat": null,
"variable": {
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  "variableName": "options",
  "variableType": "SnapshotOptions",
  "documentation": "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>\n\n<\n  "simpleType": "SnapshotOptions",
  "variableSetterType": "SnapshotOptions"
},
"xmlNameSpaceUri": null
},
"Status": {
  "beanStyleGetterMethodName": "getStatus",
  "beanStyleSetterMethodName": "setStatus",
  "c2jName": "Status",
  "c2jShape": "OptionStatus",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of a daily automated snapshot.</p>\nThis is a convenience that creates an instance of the {\@link OptionStatus.Builder} avoiding the need to create one manually via {\@link OptionStatus#builder()}.\nWhen the {\@link Consumer} completes, {\@link OptionStatus.Builder#build()} is called immediately and its result is passed to {\@link #status(OptionStatus)}.\n@\n@param status a consumer that will call methods on {\@link OptionStatus.Builder}\n@\n@return Returns a reference to this object so that method calls can be chained together.\n@\n@see #status(OptionStatus)",
"deprecated": false,
"documentation": "<p>Specifies the status of a daily automated snapshot.</p>\n",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "status",
"fluentSetterDocumentation": "<p>Specifies the status of a daily automated snapshot.</p>\n\n@\n@param status Specifies the status of a daily automated snapshot.\n@\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "status"}
"getterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
@return Specifies the status of a daily automated snapshot.",

"getterModel" : {
    "returnType" : "OptionStatus",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Status",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Status",
    "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"name" : "Status",

"sensitive" : false,

"setterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
@param status Specifies the status of a daily automated snapshot.",

"setterMethodName" : "setStatus",

"setterModel" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : null,
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {
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    "variableName" : "status",
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"variableType" : "OptionStatus",
"documentation" : "<p>Specifies the status of a daily automated snapshot.</p>",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
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"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "SnapshotOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link SnapshotOptions.Builder} avoiding the need to create one manually via {@link SnapshotOptions#builder()}. When the {@link Consumer} completes, {@link SnapshotOptions.Builder#build()} is called immediately and its result is passed to a consumer that will call methods on the Builder.

@return Returns a reference to this object so that method calls can be chained together.
@see #options(SnapshotOptions)",
"deprecated" : false,
"documentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>
@param options Specifies the daily snapshot options specified for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>
@return Specifies the daily snapshot options specified for the Elasticsearch domain.",
"getterModel" : {
"returnType" : "SnapshotOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flat" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>

Specifies the daily snapshot options specified for the Elasticsearch domain.

<p>Specifies the status of a daily automated snapshot.</p>

This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link
@param status a consumer that will call methods on { @link OptionStatus.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #status(OptionStatus)

"deprecated" : false,
"documentation" : "<p>Specifies the status of a daily automated snapshot.</p>

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>

@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>

@return Specifies the status of a daily automated snapshot.",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
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  "additionalUnmarshallingPath" : null,
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  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
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"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation": "<p>Specifies the status of a daily automated snapshot.</p>
@param status Specifies the status of a daily automated snapshot.",
"setterMethodName": "setStatus",
"setterModel": {
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  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
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"xmlNameSpaceUri": null
},
"requestSignerAware": false,
"requestSignerClassFqn": null,
"required": ["Options", "Status"],
"shapeName": "SnapshotOptionsStatus",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "SnapshotOptionsStatus",
  "variableName": "snapshotOptionsStatus",
  "variableType": "SnapshotOptionsStatus",
  "documentation": null,
  "simpleType": "SnapshotOptionsStatus",
  "variableSetterType": "SnapshotOptionsStatus"
},
"wrapper": false
},
"StartElasticsearchServiceSoftwareUpdateRequest": {
  "c2jName": "StartElasticsearchServiceSoftwareUpdateRequest",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingPerpivot": false
  }
}
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Container for the parameters to the
<code><a>StartElasticsearchServiceSoftwareUpdate</a></code> operation. Specifies the name of the Elasticsearch
domain that you wish to schedule a service software update on.</p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
"action" : "StartElasticsearchServiceSoftwareUpdate",
"locationName" : null,
"requestUri" : "/2015-01-01/es/serviceSoftwareUpdate/start",
"target" : null,
"verb" : "POST",
"xmlNameSpaceUri" : null
},
"members" : [
{
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>The name of the domain that you want to update to the
latest service software.</p>
This is a convenience that creates an instance of the [{@link String.Builder} avoiding
the need to create one manually via {@link String#builder()}. When the [{@link Consumer} completes, [{@link String.Builder#build()}] is called immediately and its result is passed to [{@link #domainName(String)}].
@see #domainName(String)"
,"deprecated" : false,
"documentation" : "<p>The name of the domain that you want to update to the latest service software.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>
@see #domainName(String)"
,"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>
@see #domainName(String)"}
software.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "domainName",

"getterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>

@<p>The name of the domain that you want to update to the latest service software.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "DomainName",

"sensitive" : false,

"setterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>

@param domainName The name of the domain that you want to update to the latest service software.

"setterMethodType" : "setDomainName",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "<p>The name of the domain that you want to update to the latest service software.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"membersAsMap": {
  "DomainName": {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultConsumerFluentSetterDocumentation": "<p>The name of the domain that you want to update to the latest service software.</p>\nWhen the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #domainName(String)].\n@see #domainName(String)"
  },
  "deprecated": false,
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "domainName",
  "fluentSetterDocumentation": "<p>The name of the domain that you want to update to the latest service software.</p>\n@see #domainName(String)"
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
  }
},
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "<p>The name of the domain that you want to update to the latest service software.</p>", 
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
],
"membersAsMap": {
  "DomainName": {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultConsumerFluentSetterDocumentation": "<p>The name of the domain that you want to update to the latest service software.</p>\nWhen the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #domainName(String)].\n@see #domainName(String)"
  },
  "deprecated": false,
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "domainName",
  "fluentSetterDocumentation": "<p>The name of the domain that you want to update to the latest service software.</p>\n@see #domainName(String)"
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
  }
}
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p><p>@param domainName The name of the domain that you want to update to the latest service software.</p>",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the domain that you want to update to the latest service software.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
}
},
"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName"
  }
]
The name of the domain that you want to update to the latest service software.

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.builder()`. When the `@link Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `domainName(String)

@see domainName(String)

*deprecated* : false,  
*documentation* : "The name of the domain that you want to update to the latest service software.

*endpointDiscoveryId* : false,  
*enumType* : null,  
*eventHeader* : false,  
*eventPayload* : false,  
*fluentEnumGetterMethodName* : null,  
*fluentEnumSetterMethodName* : null,  
*fluentGetterMethodName* : "domainName",  
*fluentSetterDocumentation* : "The name of the domain that you want to update to the latest service software.

*fluentSetterMethodName* : "domainName",  
*getterDocumentation* : "The name of the domain that you want to update to the latest service software.

*getterModel* : {
  *returnType* : "String",  
  *documentation* : null
},  
*http* : {
  *additionalMarshallingPath* : null,  
  *additionalUnmarshallingPath* : null,  
  *flattened* : false,  
  *greedy* : false,  
  *header* : false,  
  *isPayload* : false,  
  *isStreaming* : false,  
  *location* : null,  
  *marshallLocation* : "PAYLOAD",  
  *marshallLocationName* : "DomainName",  
  *queryString* : false,  
  *statusCode* : false,  
  *unmarshallLocationName* : "DomainName",  
  *uri* : false
},  
*idempotencyToken* : false,  
*isBinary* : false,  
*jsonValue* : false,  
*list* : false,  
*listModel* : null,  
*map* : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"敏感" : false,
"setterDocumentation" : "The name of the domain that you want to update to the latest service software.
@param domainName The name of the domain that you want to update to the latest service software."

"setterMethodName" : "setDomainName",
"setterModel" : { 

"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,
"variable" : { 

"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "The name of the domain that you want to update to the latest service software."
},

"xmlNameSpaceUri" : null
}

"required" : [ "DomainName" ],
"shapeName" : "StartElasticsearchServiceSoftwareUpdateRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : { 

"variableDeclarationType" : "StartElasticsearchServiceSoftwareUpdateRequest",
"variableName" : "startElasticsearchServiceSoftwareUpdateRequest",
"variableType" : "StartElasticsearchServiceSoftwareUpdateRequest",
"documentation" : null,
"simpleType" : "StartElasticsearchServiceSoftwareUpdateRequest",
"variableSetterType" : "StartElasticsearchServiceSoftwareUpdateRequest"
},

"wrapper" : false

}.

"StartElasticsearchServiceSoftwareUpdateResponse" : { 

"c2jName" : "StartElasticsearchServiceSoftwareUpdateResponse",
"customization" : { 

"artificialResultWrapper" : null,

"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"敏感" : false,
"setterDocumentation" : "The name of the domain that you want to update to the latest service software.
@param domainName The name of the domain that you want to update to the latest service software."

"setterMethodName" : "setDomainName",
"setterModel" : { 

"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,
"variable" : { 

"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "The name of the domain that you want to update to the latest service software."
},

"xmlNameSpaceUri" : null
}

"required" : [ "DomainName" ],
"shapeName" : "StartElasticsearchServiceSoftwareUpdateRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : { 

"variableDeclarationType" : "StartElasticsearchServiceSoftwareUpdateRequest",
"variableName" : "startElasticsearchServiceSoftwareUpdateRequest",
"variableType" : "StartElasticsearchServiceSoftwareUpdateRequest",
"documentation" : null,
"simpleType" : "StartElasticsearchServiceSoftwareUpdateRequest",
"variableSetterType" : "StartElasticsearchServiceSoftwareUpdateRequest"
},

"wrapper" : false

}.

"StartElasticsearchServiceSoftwareUpdateResponse" : { 

"c2jName" : "StartElasticsearchServiceSoftwareUpdateResponse",
"customization" : { 

"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "The result of a <code>StartElasticsearchServiceSoftwareUpdate</code> operation. Contains the status of the update.";
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ { "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
"beanStyleSetterMethodName" : "setServiceSoftwareOptions",
"c2jName" : "ServiceSoftwareOptions",
"defaultConsumerFluentSetterDocumentation" : "The current status of the Elasticsearch service software update."
"documentation" : "The current status of the Elasticsearch service software update.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "serviceSoftwareOptions",
"fluentSetterDocumentation" : "The current status of the Elasticsearch service software update."
"getterDocumentation" : "The current status of the Elasticsearch service software update."
"getterModel" : 

"returnType": "ServiceSoftwareOptions",
"documentation": null,
}
,"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "ServiceSoftwareOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "ServiceSoftwareOptions",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "ServiceSoftwareOptions",
"sensitive": false,
"setterDocumentation": "<p>The current status of the Elasticsearch service software update.</p>@param serviceSoftwareOptions The current status of the Elasticsearch service software update.",
"setterMethodName": "setServiceSoftwareOptions",
"setterModel": {
  "variableDeclarationType": "ServiceSoftwareOptions",
  "variableName": "serviceSoftwareOptions",
  "variableType": "ServiceSoftwareOptions",
  "documentation": null,
  "simpleType": "ServiceSoftwareOptions",
  "variableSetterType": "ServiceSoftwareOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ServiceSoftwareOptions",
  "variableName": "serviceSoftwareOptions",
  "variableType": "ServiceSoftwareOptions",
  "documentation": "<p>The current status of the Elasticsearch service software update.</p>",
  "simpleType": "ServiceSoftwareOptions",
  "variableSetterType": "ServiceSoftwareOptions"}
"variableSetterType" : "ServiceSoftwareOptions"
},
"xmlNameSpaceUri" : null
}],
"membersAsMap" : {
"ServiceSoftwareOptions" : {
"beanStyleGetterMethodName" : "getServiceSoftwareOptions",
"beanStyleSetterMethodName" : "setServiceSoftwareOptions",
"c2jName" : "ServiceSoftwareOptions",
"c2jShape" : "ServiceSoftwareOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
This is a convenience that creates an instance of the {@link ServiceSoftwareOptions.Builder} avoiding the need to create one manually via {@link ServiceSoftwareOptions.Builder#builder()}. When the {@link ServiceSoftwareOptions.Builder#build()} is called immediately and its result is passed to the consumer that will call methods on the service software update consumer a reference to this object so that method calls can be chained together.

@see #serviceSoftwareOptions(ServiceSoftwareOptions)
@param serviceSoftwareOptions a consumer that will call methods on the consumer
@return Returns a reference to this object so that method calls can be chained together.
@see #serviceSoftwareOptions(ServiceSoftwareOptions)
"}
,"deprecated" : false,
"documentation" : "<p>The current status of the Elasticsearch service software update.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "serviceSoftwareOptions",
"fluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
@param serviceSoftwareOptions The current status of the Elasticsearch service software update.
@return Returns a reference to this object so that method calls can be chained together.
"}
,"getterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>",
"getterModel" : {
"returnType" : "ServiceSoftwareOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ServiceSoftwareOptions",
"queryString" : false,
"statusCode": false,
"unmarshallLocationName": "ServiceSoftwareOptions",
"uri": false
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"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "ServiceSoftwareOptions",
"sensitive": false,
"setterDocumentation": "\n\nThe current status of the Elasticsearch service software update.
\n\n@param serviceSoftwareOptions The current status of the Elasticsearch service software update.
",
"setterMethodName": "setServiceSoftwareOptions",
"setterModel": {
  "variableDeclarationType": "ServiceSoftwareOptions",
  "variableName": "serviceSoftwareOptions",
  "variableType": "ServiceSoftwareOptions",
  "documentation": null,
  "simpleType": "ServiceSoftwareOptions",
  "variableSetterType": "ServiceSoftwareOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ServiceSoftwareOptions",
  "variableName": "serviceSoftwareOptions",
  "variableType": "ServiceSoftwareOptions",
  "documentation": "The current status of the Elasticsearch service software update.
",
  "simpleType": "ServiceSoftwareOptions",
  "variableSetterType": "ServiceSoftwareOptions"
},
"xmlNameSpaceUri": null
},

"nonStreamingMembers": [
  "beanStyleGetterMethodName": "getServiceSoftwareOptions",
  "beanStyleSetterMethodName": "setServiceSoftwareOptions",
  "c2jName": "ServiceSoftwareOptions",
  "c2jShape": "ServiceSoftwareOptions",
  "defaultConsumerFluentSetterDocumentation": "\n\nThis is a convenience that creates an instance of the \n\nServiceSoftwareOptions.Builder\n
avoiding the need to create one manually via \n\nServiceSoftwareOptions.Builder\n
When the \n\nServiceSoftwareOptions.Builder\n
completes, \n\nServiceSoftwareOptions.Builder\n
is called immediately and its result is passed to \n\nServiceSoftwareOptions\n
a
consumer that will call methods on \(@link\) ServiceSoftwareOptions.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see \#serviceSoftwareOptions(ServiceSoftwareOptions)\n\n"deprecated" : false,
"documentation" : "\n\n<p>The current status of the Elasticsearch service software update.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "serviceSoftwareOptions",
"fluentSetterDocumentation" : "\nThe current status of the Elasticsearch service software update.\n@return Returns a reference to this object so that method calls can be chained together.\n"@see \#serviceSoftwareOptions",
"getterDocumentation" : "\n\n<p>The current status of the Elasticsearch service software update.</p>
\n@param serviceSoftwareOptions The current status of the Elasticsearch service software update.\n@return The current status of the Elasticsearch service software update.\n\n"getterModel" : {\n"returnType" : "ServiceSoftwareOptions",
"documentation" : null
},
"http" : {\n"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ServiceSoftwareOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ServiceSoftwareOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"sensitive" : false,
"setterDocumentation" : "\nThe current status of the Elasticsearch service software update.\n"
serviceSoftwareOptions The current status of the Elasticsearch service software update.

"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : "The current status of the Elasticsearch service software update."
},
"xmlNameSpaceUri" : null
}]
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "StartElasticsearchServiceSoftwareUpdateResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "StartElasticsearchServiceSoftwareUpdateResponse",
  "variableName" : "startElasticsearchServiceSoftwareUpdateResponse",
  "variableType" : "StartElasticsearchServiceSoftwareUpdateResponse",
  "documentation" : null,
  "simpleType" : "StartElasticsearchServiceSoftwareUpdateResponse",
  "variableSetterType" : "StartElasticsearchServiceSoftwareUpdateResponse"
},
"wrapper" : false
},
"StorageType" : {
  "c2jName" : "StorageType",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0,
"deprecated" : false,
"documentation" : "<p>StorageTypes represents the list of storage related types and their attributes that are available for given InstanceType. </p>
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
"beanStyleGetterMethodName" : "getStorageTypeName",
"beanStyleSetterMethodName" : "setStorageTypeName",
"c2jName" : "StorageTypeName",
"c2jShape" : "StorageTypeName",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object.\n
This is a convenience that creates an instance of the [{link String.Builder}] avoiding the need to create one manually via [{link String#builder()}].\n
When the [{link Consumer}] completes, [{link String.Builder#build()}] is called immediately and its result is passed to [{link #storageTypeName(String)}].\n
@link String.Builder#build()\n
@return Returns a reference to this object so that method calls can be chained together.\n@see #storageTypeName(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "storageTypeName",
"fluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object.\n
@link String#builder()\n
@see #storageTypeName(String)",
"getterDocumentation" : "Returns the value of the StorageTypeName property for this object.\n
@link String#builder()\n
@see #storageTypeName(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
}
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "StorageTypeName",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "StorageTypeName",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "StorageTypeName",
"simple": true,
"setterDocumentation": "Sets the value of the StorageTypeName property for this object.\n\n@param storageTypeName The new value for the StorageTypeName property for this object."
  "setterMethodName": "setStorageTypeName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "storageTypeName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
  "simple": true,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "String",
    "variableName": "storageTypeName",
    "variableType": "String",
    "documentation": "",
    "simpleType": "String",
    "variableSetterType": "String"
  },
  "xmlNameSpaceUri": null
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.

This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.

When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #storageSubTypeName(String)\}.

@deprecate : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "storageSubTypeName",
"fluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.

@param storageSubTypeName The new value for the StorageSubTypeName property for this object.

@return Returns a reference to this object so that method calls can be chained together.

@see #storageSubTypeName(String)"
"idempotencyToken" : false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "StorageSubTypeName",
"sensitive": false,

"setterDocumentation": "Sets the value of the StorageSubTypeName property for this object.\n\n@param storageSubTypeName The new value for the StorageSubTypeName property for this object."
,
"setterMethodName": "setStorageSubTypeName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "storageSubTypeName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "storageSubTypeName",
  "variableType": "String",
  "documentation": 
  "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getStorageTypeLimits",
"beanStyleSetterMethodName": "setStorageTypeLimits",
"c2jName": "StorageTypeLimits",
"c2jShape": "StorageTypeLimitList",
"defaultConsumerFluentSetterDocumentation": "<p>List of limits that are applicable for given storage type.\nThis is a convenience that creates an instance of the [\link List<StorageTypeLimit>.Builder] avoiding the need to create one manually via [\link List<StorageTypeLimit>#builder()].\nWhen the [\link Consumer] completes, [\link List<StorageTypeLimit>.Builder#build()] is called immediately and its result is passed to [\link #storageTypeLimits(List<StorageTypeLimit>).\n@param storageTypeLimits a consumer that will call methods on [\link List<StorageTypeLimit>.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #storageTypeLimits(List<StorageTypeLimit>)"]",
"deprecated": false,
"documentation": "<p>List of limits that are applicable for given storage type. </p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "storageTypeLimits",
"fluentSetterDocumentation" : "List of limits that are applicable for given storage type.\n@param storageTypeLimits List of limits that are applicable for given storage type.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "storageTypeLimits",
"getterDocumentation" : "List of limits that are applicable for given storage type.\n<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n</p>\n@return List of limits that are applicable for given storage type.",
"getterModel" : {
"returnType" : "java.util.List<StorageTypeLimit>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "StorageTypeLimits",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StorageTypeLimits",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "StorageTypeLimit",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the @link StorageTypeLimit.Builder\navoiding the need to create one manually via @link StorageTypeLimit#builder().\nWhen the @link Consumer\ncompletes, @link StorageTypeLimit.Builder#build() is called immediately and its result is passed to @link #member(StorageTypeLimit)\n@link param member a consumer that will call methods on @link"},
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "StorageTypeLimit",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the @link StorageTypeLimit.Builder\navoiding the need to create one manually via @link StorageTypeLimit#builder().\nWhen the @link Consumer\ncompletes, @link StorageTypeLimit.Builder#build() is called immediately and its result is passed to @link #member(StorageTypeLimit)\n@link param member a consumer that will call methods on @link"}}
StorageTypeLimit.Builder\n@returns Returns a reference to this object so that method calls can be chained
together.\n@see #member(StorageTypeLimit)
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventTypeHeader" : false,
"eventTypePayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\\n\\n@param member
The new value for the Member property for this object.\\n@returns Returns a reference to this object so that method calls can be chained
together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\\n@returns The value of
the Member property for this object."
"getterModel" : {
	"returnType" : "StorageTypeLimit",
	"documentation" : null
},
"http" : {
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	"additionalUnmarshallingPath" : null,
	"flattened" : false,
	"greedy" : false,
	"header" : false,
	"isPayload" : false,
	"isStreaming" : false,
	"location" : null,
	"marshallLocation" : "PAYLOAD",
	"marshallLocationName" : "member",
	"queryString" : false,
	"statusCode" : false,
	"unmarshallLocationName" : "member",
	"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\\n\\n@param member
The new
value for the Member property for this object.

setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "StorageTypeLimit",
  "variableName" : "member",
  "variableType" : "StorageTypeLimit",
  "documentation" : null,
  "simpleType" : "StorageTypeLimit",
  "variableSetterType" : "StorageTypeLimit"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "StorageTypeLimit",
  "variableName" : "member",
  "variableType" : "StorageTypeLimit",
  "documentation" : "",
  "simpleType" : "StorageTypeLimit",
  "variableSetterType" : "StorageTypeLimit"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "StorageTypeLimit",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "StorageTypeLimit",
"templateImplType" : "java.util.ArrayList<StorageTypeLimit>",
"templateType" : "java.util.List<StorageTypeLimit>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StorageTypeLimits",
"sensitive" : false,
"setterDocumentation" : "<p>List of limits that are applicable for given storage type. </p>

@n@param storageTypeLimits List of limits that are applicable for given storage type.

setterMethodName" : "setStorageTypeLimits",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<StorageTypeLimit>",
  "variableName" : "storageTypeLimits",
  "variableType" : "java.util.List<StorageTypeLimit>",
  "documentation" : null,
  "simpleType" : "List<StorageTypeLimit>",
  "variableSetterType" : "java.util.Collection<StorageTypeLimit>"
}.
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<StorageTypeLimit>",
  "variableName" : "storageTypeLimits",
  "variableType" : "java.util.List<StorageTypeLimit>",
  "documentation" : <p>List of limits that are applicable for given storage type. </p>",
  "simpleType" : "List<StorageTypeLimit>",
  "variableSetterType" : "java.util.Collection<StorageTypeLimit>"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "StorageSubTypeName" : {
    "beanStyleGetterMethodName" : "getStorageSubTypeName",
    "beanStyleSetterMethodName" : "setStorageSubTypeName",
    "c2jName" : "StorageSubTypeName",
    "c2jShape" : "StorageSubTypeName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.
This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder()].
When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [String#storageSubTypeName(String)].
@deprecated
@see #storageSubTypeName(String)"
  }
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "returnType" : "String",
  "documentation" : null
}
"c2jName" : "StorageTypeLimits",
"c2jShape" : "StorageTypeLimitList",
"defaultConsumerFluentSetterDocumentation" : "<p>List of limits that are applicable for given storage type.</p>
This is a convenience that creates an instance of the [Link List<StorageTypeLimit>.Builder] avoiding the need to create one manually via [Link List<StorageTypeLimit>#builder()].
When the [Link Consumer] completes, [Link List<StorageTypeLimit>.Builder#build] is called immediately and its result is passed to [Link #storageTypeLimits(List<StorageTypeLimit>)].
@param storageTypeLimits a consumer that will call methods on [Link List<StorageTypeLimit>.Builder]
@returns Returns a reference to this object so that method calls can be chained together.
@see #storageTypeLimits(List<StorageTypeLimit>)",
"deprecated" : false,
"documentation" : "<p>List of limits that are applicable for given storage type. </p>
@endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "storageTypeLimits",
"fluentSetterDocumentation" : "<p>List of limits that are applicable for given storage type. </p>
@param storageTypeLimits List of limits that are applicable for given storage type.
@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "storageTypeLimits",
"getterDocumentation" : "<p>List of limits that are applicable for given storage type. </p>
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return List of limits that are applicable for given storage type.
"getterModel" : {
  "returnType" : "java.util.List<StorageTypeLimit>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StorageTypeLimits",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StorageTypeLimits",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "StorageTypeLimit",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the {@link StorageTypeLimit.Builder} avoiding the need to create one manually via {@link StorageTypeLimit#builder()}. When the {@link Consumer} completes, {@link StorageTypeLimit.Builder#build()} is called immediately and its result is passed to {@link StorageTypeLimit#member(StorageTypeLimit)}. @param member a consumer that will call methods on {@link StorageTypeLimit.Builder} @return Returns a reference to this object so that method calls can be chained together.@see #member(StorageTypeLimit)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object. @return Returns a reference to this object so that method calls can be chained together.",
    "getterDocumentation" : "Returns the value of the Member property for this object. @return The value of the Member property for this object.",
    "getterModel" : {
      "returnType" : "StorageTypeLimit",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : null,
      "marshallLocation" : "PAYLOAD",
      "marshallLocationName" : "member",
      "queryString" : false,
      "statusCode" : false,
      "statusType" : false,
    }
  }
}
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
" sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@\n\n\n@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
 "variableDeclarationType" : "StorageTypeLimit",
 "variableName" : "member",
 "variableType" : "StorageTypeLimit",
 "documentation" : null,
 "simpleType" : "StorageTypeLimit",
 "variableSetterType" : "StorageTypeLimit"
 },
"simple" : false,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "StorageTypeLimit",
 "variableName" : "member",
 "variableType" : "StorageTypeLimit",
 "documentation" : "",
 "simpleType" : "StorageTypeLimit",
 "variableSetterType" : "StorageTypeLimit"
 },
"xmlNameSpaceUri" : null
},
"memberLocationName": null,
"memberType" : "StorageTypeLimit",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "StorageTypeLimit",
"templateImplType" : "java.util.ArrayList<StorageTypeLimit>",
"templateType" : "java.util.List<StorageTypeLimit>"
},
"map" : false,
"mapModel" : null,
"marshallingType": "LIST",
"name": "StorageTypeLimits",
"sensitive": false,
"setterDocumentation": "<p>List of limits that are applicable for given storage type. </p>@param storageTypeLimits List of limits that are applicable for given storage type. ",
"setterMethodName": "setStorageTypeLimits",
"setterModel": {
  "variableDeclarationType": "java.util.List<StorageTypeLimit>",
  "variableName": "storageTypeLimits",
  "variableType": "java.util.List<StorageTypeLimit>",
  "documentation": null,
  "simpleType": "List<StorageTypeLimit>",
  "variableSetterType": "java.util.Collection<StorageTypeLimit>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<StorageTypeLimit>",
  "variableName": "storageTypeLimits",
  "variableType": "java.util.List<StorageTypeLimit>",
  "documentation": "<p>List of limits that are applicable for given storage type. </p>",
  "simpleType": "List<StorageTypeLimit>",
  "variableSetterType": "java.util.Collection<StorageTypeLimit>"
},
"xmlNameSpaceUri": null
},
"StorageTypeName": {
  "beanStyleGetterMethodName": "getStorageTypeName",
  "beanStyleSetterMethodName": "setStorageTypeName",
  "c2jName": "StorageTypeName",
  "c2jShape": "StorageTypeName",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the StorageTypeName property for this object.\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #storageTypeName(String)\}.\n@param storageTypeName a consumer that will call methods on \{@link String.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #storageTypeName(String)",
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "storageTypeName",
  "fluentSetterDocumentation": "Sets the value of the StorageTypeName property for this object.\n@see #storageTypeName(String)"
}
storageTypeName The new value for the StorageTypeName property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "storageTypeName",
"getterDocumentation" : "Returns the value of the StorageTypeName property for this object.

@returns The value of the StorageTypeName property for this object.

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "StorageTypeName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StorageTypeName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "StorageTypeName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the StorageTypeName property for this object.

@param storageTypeName The new value for the StorageTypeName property for this object.

@returns The value of the StorageTypeName property for this object.

"setterMethod Name" : "setStorageTypeName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "storageTypeName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "storageTypeName",
    "variableType" : "String",
    "documentation" : "",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [
    "beanStyleGetterMethodName" : "getStorageTypeName",
    "beanStyleSetterMethodName" : "setStorageTypeName",
    "c2jName" : "StorageTypeName",
    "c2jShape" : "StorageTypeName",
    "defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object. This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #storageTypeName(String) }.
    @param storageTypeName a consumer that will call methods on { @link String.Builder }
    @return Returns a reference to this object so that method calls can be chained together.
    @see #storageTypeName(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "storageTypeName",
    "fluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object. The new value for the StorageTypeName property for this object. @param storageTypeName The new value for the StorageTypeName property for this object.@return Returns a reference to this object so that method calls can be chained together.".,
    "fluentSetterMethodName" : "storageTypeName",
    "getterDocumentation" : "Returns the value of the StorageTypeName property for this object. The value of the StorageTypeName property for this object. @return The value of the StorageTypeName property for this object."
},
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "StorageTypeName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StorageTypeName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "StorageTypeName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the StorageTypeName property for this object.\n\n@param storageTypeName The new value for the StorageTypeName property for this object.\n\n@returns
"setterMethodName" : "setStorageTypeName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "storageTypeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "storageTypeName",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStorageSubTypeName",
"beanStyleSetterMethodName" : "setStorageSubTypeName",
"c2jName" : "StorageSubTypeName",
"c2jShape" : "StorageSubTypeName",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #storageSubTypeName(String)].

@returns Returns a reference to this object so that method calls can be chained together.

@see #storageSubTypeName(String)
"marshallingType" : "STRING",
"name" : "StorageSubTypeName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.\n@n@param storageSubTypeName The new value for the StorageSubTypeName property for this object.\n",
"setterMethodName" : "setStorageSubTypeName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "storageSubTypeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "storageSubTypeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getStorageTypeLimits",
  "beanStyleSetterMethodName" : "setStorageTypeLimits",
  "c2jName" : "StorageTypeLimits",
  "c2jShape" : "StorageTypeLimitList",
  "defaultConsumerFluentSetterDocumentation" : "<p>List of limits that are applicable for given storage type.\nThis is a convenience that creates an instance of the {\link List<StorageTypeLimit>.Builder} avoiding the need to create one manually via {\link List<StorageTypeLimit>#builder()}.\nWhen the {\link Consumer} completes, {\link List<StorageTypeLimit>.Builder#build()} is called immediately and its result is passed to {\link #storageTypeLimits(List<StorageTypeLimit>)} a consumer that will call methods on {\link List<StorageTypeLimit>.Builder} return Returns a reference to this object so that method calls can be chained together.\n@see #storageTypeLimits(List<StorageTypeLimit>)"
},
  "deprecated" : false,
  "documentation" : "<p>List of limits that are applicable for given storage type.\n</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "storageTypeLimits",
  "fluentSetterDocumentation" : "<p>List of limits that are applicable for given storage type.\n</p>@param storageTypeLimits List of limits that are applicable for given storage type.\n@return Returns a reference to this
object so that method calls can be chained together.

"fluentSetterMethodName" : "storageTypeLimits",
"getterDocumentation" : "<p>List of limits that are applicable for given storage type. </p>
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException. </p>
@return List of limits that are applicable for given storage type.

"getterModel" : {
  "returnType" : "java.util.List<StorageTypeLimit>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StorageTypeLimits",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StorageTypeLimits",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "StorageTypeLimit",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the {@link StorageTypeLimit.Builder} avoiding the need to create one manually via {@link StorageTypeLimit#builder()}. When the {@link Consumer} completes, {@link StorageTypeLimit.Builder#build()} is called immediately and its result is passed to {@link StorageTypeLimit.Builder}.

@see #member(StorageTypeLimit)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "member",
"fluentSetterDocumentation": "Sets the value of the Member property for this object.\n\n@\n@\nmember
The new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName": "member",
"getterDocumentation": "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object.\n",
"getterModel": {
"returnType": "StorageTypeLimit",
"documentation": null
}
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"sensitive": false,
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@\n@\nmember
The new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n",
"setterMethodName": "setMember",
"setterModel": {
"variableDeclarationType": "StorageTypeLimit",
"variableName": "member",
"variableType": "StorageTypeLimit",
"getterModel": {
"returnType": "StorageTypeLimit",
"documentation": null
}
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"sensitive": false,
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@\n@\nmember
The new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n",
"setterMethodName": "setMember",
"setterModel": {
"variableDeclarationType": "StorageTypeLimit",
"variableName": "member",
"variableType": "StorageTypeLimit",
"getterModel": {
"returnType": "StorageTypeLimit",
"documentation": null
}
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"documentation": null,
"simpleType": "StorageTypeLimit",
"variableSetterType": "StorageTypeLimit"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "StorageTypeLimit",
  "variableName": "member",
  "variableType": "StorageTypeLimit",
  "documentation": "",
  "simpleType": "StorageTypeLimit",
  "variableSetterType": "StorageTypeLimit"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "StorageTypeLimit",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "StorageTypeLimit",
"templateImplType": "java.util.ArrayList<StorageTypeLimit>",
"templateType": "java.util.List<StorageTypeLimit>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "StorageTypeLimits",
"sensitive": false,
"setterDocumentation": "<p>List of limits that are applicable for given storage type. </p><p>@param storageTypeLimits List of limits that are applicable for given storage type.</p>",
"setterMethodName": "setStorageTypeLimits",
"setterModel": {
  "variableDeclarationType": "java.util.List<StorageTypeLimit>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<StorageTypeLimit>"
},
"variableName": "storageTypeLimits",
"variableType": "java.util.List<StorageTypeLimit>"
"documentation" : "<p>List of limits that are applicable for given storage type. </p>",
"simpleType" : "List<StorageTypeLimit>",
"variableSetterType" : "java.util.Collection<StorageTypeLimit>"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "StorageType",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "StorageType",
"variableName" : "storageType",
"variableType" : "StorageType",
"documentation" : null,
"simpleType" : "StorageType",
"variableSetterType" : "StorageType"
},
"wrapper" : false
},
"StorageTypeLimit" : {
"c2jName" : "StorageTypeLimit",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Limits that are applicable for given storage type. </p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
Name of storage limits that are applicable for given storage type. If <code>&lt;a&gt;StorageType&lt;/a&gt;</code> is ebs, following storage options are applicable:

- **MinimumVolumeSize**: Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
- **MaximumVolumeSize**: Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
- **MaximumIops**: Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.
- **MinimumIops**: Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.Builder#build()`. When the `@link String.Builder` completes, `@link String.Builder#build()` is called immediately and its result is passed to a consumer that will call methods on `String.Builder`.

```
@see #limitName(String)
```

### Fluent Setters

- **limitName**: Name of storage limits that are applicable for given storage type. If <code>&lt;a&gt;StorageType&lt;/a&gt;</code> is ebs, following storage options are applicable:

  - **MinimumVolumeSize**: Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
  - **MaximumVolumeSize**: Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
  - **MaximumIops**: Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.
  - **MinimumIops**: Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.

  Returns a reference to this object so that method calls can be chained together.

```
@see #limitName(String)
```

### Endpoint Discovery

```java
endpointDiscoveryId : false,
```

### Enum Type

```java
enumType : null,
```

### Event Header

```java
eventHeader : false,
```

### Event Payload

```java
eventPayload : false,
```

### Fluent Enum Getters

```java
fluentEnumerableMethodName : null,
```

### Fluent Enum Setters

```java
fluentEnumerableSetterMethodName : null,
```

### Fluent Getters

```java
fluentGetterMethodName : "limitName",
```

### Fluent Setters

```java
fluentSetterMethodName : "limitName",
```

### Getter Documentation

```java
getterDocumentation : "&lt;p&gt; Name of storage limits that are applicable for given storage type. If &lt;code&gt;&lt;a&gt;StorageType&lt;/a&gt;&lt;/code&gt; is ebs, following storage options are applicable &lt;ol&gt;&lt;li&gt;MinimumVolumeSize&lt;/li&gt; Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumVolumeSize&lt;/li&gt; Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumIops&lt;/li&gt; Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MinimumIops&lt;/li&gt; Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;/ol&gt;&lt;/p&gt;&lt;/n&gt;This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.Builder#build()`. When the `@link String.Builder` completes, `@link String.Builder#build()` is called immediately and its result is passed to a consumer that will call methods on `String.Builder`.

@see #limitName(String)
```

### Deprecated

```java
deprecated : false,
```

### Documentation

```java
documentation : "&lt;p&gt; Name of storage limits that are applicable for given storage type. If &lt;code&gt;&lt;a&gt;StorageType&lt;/a&gt;&lt;/code&gt; is ebs, following storage options are applicable &lt;ol&gt;&lt;li&gt;MinimumVolumeSize&lt;/li&gt; Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumVolumeSize&lt;/li&gt; Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumIops&lt;/li&gt; Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MinimumIops&lt;/li&gt; Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;/ol&gt;&lt;/p&gt;&lt;/n&gt;This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.Builder#build()`. When the `@link String.Builder` completes, `@link String.Builder#build()` is called immediately and its result is passed to a consumer that will call methods on `String.Builder`.

@see #limitName(String)
```

## Open Source Used In SD Wan

**Version:** 20.6.1

**License:** 25207
<p>StorageType</p> is ebs, following storage options are applicable

- **MinimumVolumeSize**: Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
- **MaximumVolumeSize**: Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
- **MaximumIops**: Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.
- **MinimumIops**: Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.

```java
public class StorageLimits {
    private String limitName;

    public String getLimitName() {
        return limitName;
    }

    public void setLimitName(String limitName) {
        this.limitName = limitName;
    }
}
```

### Documentation

- **Return**: Name of storage limits that are applicable for given storage type. If `StorageType` is ebs, following storage options are applicable:
  - **MinimumVolumeSize**: Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
  - **MaximumVolumeSize**: Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
  - **MaximumIops**: Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.
  - **MinimumIops**: Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.
given storage type. It can be empty if it is not applicable. </ol> </p>

@\param limitName Name of storage limits that are applicable for given storage type. If <code><a>StorageType</a></code> is ebs, following storage options are applicable <ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </ol>

"setterMethodName" : "setLimitName",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "limitName",
    "variableType" : "String",
    "documentation" : "Name of storage limits that are applicable for given storage type. If <code><a>StorageType</a></code> is ebs, following storage options are applicable <ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applica

"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "limitName",
    "variableType" : "String",
    "documentation" : "Values for the <code><a>StorageTypeLimit$LimitName</a></code>. This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to [@link List<String>].\n\nThis is a convenience that creates an instance of the [...]

"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getLimitValues",
"beanStyleSetterMethodName" : "setLimitValues",
"c2jName" : "LimitValues",
"c2jShape" : "LimitValueList",
"defaultValueFluentSetterDocumentation" : "Values for the <code><a>StorageTypeLimit$LimitName</a></code>. This is a convenience that creates an instance of the [...]

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterDocumentation" : "<p> Values for the <code>&lt;a&gt;StorageTypeLimit$LimitName&lt;/a&gt;</code>. 
@param limitValues Values for the <code>&lt;a&gt;StorageTypeLimit$LimitName&lt;/a&gt;</code>. 
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "limitValues",
"getterDocumentation" : "<p> Values for the <code>&lt;a&gt;StorageTypeLimit$LimitName&lt;/a&gt;</code>. 
Attempts to modify the collection returned by this method will result in an 
UnsupportedOperationException.
</p>
@return Values for the <code>&lt;a&gt;StorageTypeLimit$LimitName&lt;/a&gt;</code>. 
"getterModel" : {
   "returnType" : "java.util.List<String>",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "LimitValues",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "LimitValues",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
   "implType" : "java.util.ArrayList",
   "interfaceType" : "java.util.List",
   "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "c2jShape" : "LimitValue",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.builder()`. When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `member(String)`.

The new value for the Member property for this object.

```
@link String.Builder

@link String

@link Builder

@link Consumer

@link String.Builder#build()

@link member(String)

@link #member(String)

@see #member(String)
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.builder()`. When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `member(String)`.

The new value for the Member property for this object.

```
@link String.Builder

@link String

@link Builder

@link Consumer

@link String.Builder#build()

@link member(String)

@link #member(String)

@see #member(String)
```
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "LimitValues",
"sensitive" : false,
"setterDocumentation" : "<p>Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .

@param limitValues Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .",
"setterMethodName" : "setLimitValues",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitValues",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.List<String>",
"variableName": "limitValues",
"variableType": "java.util.List<String>",
"documentation": "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> . </p>",
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
]
],
"membersAsMap": {
"LimitName": {
"beanStyleGetterMethodName": "getLimitName",
"beanStyleSetterMethodName": "setLimitName",
"c2jName": "LimitName",
"c2jShape": "LimitName",
"defaultConsumerFluentSetterDocumentation": "<p> Name of storage limits that are applicable for given storage type. If <code> <a>StorageType</a> </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable. </ol>

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #limitName(String)}.\n@param limitName a consumer that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #limitName(String)",
"deprecated": false,
"documentation": "<p> Name of storage limits that are applicable for given storage type. If <code> <a>StorageType</a> </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable. </ol>

"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "limitName",
"fluentSetterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>&lt;a&gt;StorageType&lt;/a&gt; </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable.<li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable.<li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable.<li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable.<ol>
</p>

@param limitName Name of storage limits that are applicable for given storage type. If <code>&lt;a&gt;StorageType&lt;/a&gt; </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable.<li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable.<li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable.<li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable.<ol>

@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName" : "limitName",

"getterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>&lt;a&gt;StorageType&lt;/a&gt; </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable.<li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable.<li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable.<li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable.<ol>

@return Name of storage limits that are applicable for given storage type. If <code>&lt;a&gt;StorageType&lt;/a&gt; </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable.<li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type.It can be empty if it is not applicable.<li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable.<li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type.It can be empty if it is not applicable.<ol>

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LimitName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LimitName",
  "uri" : false
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "LimitName",
"sensitive" : false,
"setterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If <code><a>StorageType</a></code> is ebs, following storage options are applicable <ol><li>MinimumVolumeSize</li>
Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </ol> 
@param limitName Name of storage limits that are applicable for given storage type. If <code><a>StorageType</a></code> is ebs, following storage options are applicable <ol><li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 
"setterMethodName" : "setLimitName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
"setterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If <code><a>StorageType</a></code> is ebs, following storage options are applicable <ol><li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 
"setterMethodName" : "setLimitName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
"setterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If <code><a>StorageType</a></code> is ebs, following storage options are applicable <ol><li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 
"setterMethodName" : "setLimitName",
"setterModel" : {
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"variableName" : "limitName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
"variableSetterType": "String",
},
"xmlNameSpaceUri": null
},
"LimitValues": {
  "beanStyleGetterMethodName": "getLimitValues",
  "beanStyleSetterMethodName": "setLimitValues",
  "c2jName": "LimitValues",
  "c2jShape": "LimitValueList",
  "defaultConsumerFluentSetterDocumentation": "<p> Values for the <code>StorageTypeLimit$LimitName</code> .
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the
{@link List<String>.Builder#build()} is called immediately and its result is passed to
{@link #limitValues(List<String>)}. @param limitValues a consumer that will call methods on
{@link List<String>.Builder}@n@return Returns a reference to this object so that method calls can be chained
together.@n@see #limitValues(List<String>)",
  "deprecated": false,
  "documentation": "<p> Values for the <code>StorageTypeLimit$LimitName</code> .
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
"getterModel": {
  "returnType": "java.util.List<String>",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "LimitValues",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "limitValues",
"fluentSetterDocumentation": "<p> Values for the <code>StorageTypeLimit$LimitName</code> .
@return Returns a reference to this object so that method calls can be chained
together.
"getterDocumentation": "<p> Values for the <code>StorageTypeLimit$LimitName</code> .
"http": {
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  "additionalUnmarshallingPath": null,
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  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "LimitValues",
}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LimitValues",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "LimitValue",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create
one manually via [@link String#builder()].\nWhen the [@link Consumer] completes, [@link
String.Builder#build()]] is called immediately and its result is passed to [@link    #member(String)].\n@param member a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@return Returns a reference to this object so that method
calls can be chained together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of
the Member property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
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    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
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"isBinary" : false,
"jsonValue" : false,
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"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.
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"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "LimitValues",
"sensitive" : false,
"setterDocumentation" : "Values for the <code> <a>StorageTypeLimit$LimitName</a> </code>.<p>
@param limitValues Values for the <code> <a>StorageTypeLimit$LimitName</a> </code>.",
"setterMethodName" : "setLimitValues",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitValues",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitValues",
  "variableType" : "java.util.List<String>",
  "documentation" : "Values for the <code> <a>StorageTypeLimit$LimitName</a> </code>.",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getLimitName",
  "beanStyleSetterMethodName" : "setLimitName",
  "c2jName" : "LimitName",
  "c2jShape" : "LimitName",
  "defaultConsumerFluentSetterDocumentation" : "Name of storage limits that are applicable for given
storage type. If <code> <a>StorageType</a> </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </ol> This is a
convenience that creates an instance of the [{@link String.Builder}] avoiding the need to create one manually via
[{@link String#builder()}].

When the [{@link Consumer} completes, [{@link String.Builder#build()}] is called
immediately and its result is passed to {@link #limitName(String)}.\n\n@param limitName a consumer that will call methods on {@link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #limitName(String)"

deprecated" : false,

documentation" : "<p> Name of storage limits that are applicable for given storage type. If \n\n<code>\n<a>StorageType</a>\n</code> is ebs, following storage options are applicable <ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. </ol> <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. </li> <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </li> <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </li> <ol> </ol> <p> </p>

@endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "limitName",

"fluentSetterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If \n\n<code>\n<a>StorageType</a>\n</code> is ebs, following storage options are applicable <ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. </ol> <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. </li> <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </li> <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </li> <ol> </ol> <p> </p>

@endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "limitName",

"fluentSetterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If \n\n<code>\n<a>StorageType</a>\n</code> is ebs, following storage options are applicable <ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. </ol> <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. </li> <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </li> <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </li> <ol> </ol> <p> </p>

@endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "limitName",

"fluentSetterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If \n\n<code>\n<a>StorageType</a>\n</code> is ebs, following storage options are applicable <ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. </ol> <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. </li> <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </li> <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </li> <ol> </ol> <p> </p>

@endpointDiscoveryId" : false,
"documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "LimitName",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "LimitName",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "LimitName",
"sensitive": false,
"setterDocumentation": "<p> Name of storage limits that are applicable for given storage type. If <code>StorageType</code> is ebs, following storage options are applicable <ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <ol> 
"setterMethodName": "setLimitName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "limitName",
  "variableType": "String",
  "documentation": null
}
"simpleType" : "String",
"variableSetterType" : "String"
}
,"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : "<p> Name of storage limits that are applicable for given storage type. If <code><a>StorageType</a></code> is ebs, following storage options are applicable <ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. </ol> <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. </ol> <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </p>",
"simpleType" : "String",
"variableSetterType" : "String"

"defaultConsumerFluentSetterDocumentation" : "<p> Values for the <code><a>StorageTypeLimit$LimitName</a></code>. </p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the complete, the method is called immediately and its result is passed to the consumer that will call methods on the Builder object. Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p> Values for the <code><a>StorageTypeLimit$LimitName</a></code>. </p>
Attempts to modify the collection returned by this method will result in a UnsupportedOperationException.

"getterDocumentation" : "<p> Values for the <code><a>StorageTypeLimit$LimitName</a></code>. </p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterMethodName" : "limitValues",
"documentation" : "<p> Values for the <code><a>StorageTypeLimit$LimitName</a></code>. </p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterMethodName" : "limitValues",
"documentation" : "<p> Values for the <code><a>StorageTypeLimit$LimitName</a></code>. </p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterMethodName" : "limitValues",
"documentation" : "<p> Values for the <code><a>StorageTypeLimit$LimitName</a></code>. </p>
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "LimitValues",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "LimitValues",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
        "beanStyleGetterMethodName" : "getMember",
        "beanStyleSetterMethodName" : "setMember",
        "c2jName" : "member",
        "c2jShape" : "LimitValue",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder().\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}.\n@param member a consumer that will call methods on {@link String.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #member(String)"
    },
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterMethodName" : "member",
    "implType" : "com.google.api.codegen.decorators.ListMemberImpl",
    "interfaceType" : "com.google.api.codegen.decorators.ListMemberInterface",
    "listMemberModel" : {
        "beanStyleGetterMethodName" : "getMember",
        "beanStyleSetterMethodName" : "setMember",
        "c2jName" : "member",
        "c2jShape" : "LimitValue",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder().\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}.\n@param member a consumer that will call methods on {@link String.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #member(String)"
    }
}"
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>",
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "LimitValues",
"sensitive": false,
"setterDocumentation": "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .
@param limitValues Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .",
"setterMethodName": "setLimitValues",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "limitValues",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "limitValues",
  "variableType": "java.util.List<String>",
  "documentation": "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .
@param limitValues Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .",
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "StorageTypeLimit",
"simpleMethod" : false,
"unmarshaller" : {
   "flattened" : false,
   "resultWrapper" : null
},
"variable" : {
   "variableDeclarationType" : "StorageTypeLimit",
   "variableName" : "storageTypeLimit",
   "variableType" : "StorageTypeLimit",
   "documentation" : null,
   "simpleType" : "StorageTypeLimit",
   "variableSetterType" : "StorageTypeLimit"
},
"wrapper" : false
},
"Tag" : {
   "c2jName" : "Tag",
   "customization" : {
      "artificialResultWrapper" : null,
      "skipGeneratingMarshaller" : false,
      "skipGeneratingModelClass" : false,
      "skipGeneratingUnmarshaller" : false,
      "staxTargetDepthOffset" : 0
   },
   "deprecated" : false,
   "documentation" : "<p>Specifies a key value pair for a resource tag.</p>",
   "endpointDiscovery" : null,
   "enums" : null,
   "errorCode" : null,
   "event" : false,
   "eventStream" : false,
   "explicitEventPayloadMember" : null,
   "hasHeaderMember" : false,
   "hasPayloadMember" : false,
   "hasStatusCodeMember" : false,
   "hasStreamingMember" : false,
   "httpStatusCode" : null,
   "marshaller" : null,
   "members" : [ ]
}];
"beanStyleGetterMethodName" : "getKey",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "Key",
"c2jShape" : "TagKey"
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.\</p>\n\nThis is a convenience that creates an instance of the `{@link String.Builder}` avoiding the need to create one manually via `{@link String#builder()}`.\n\nWhen the `{@link Consumer}` completes, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #key(String)}`.\n\n@param key a consumer that will call methods on `{@link String.Builder}`\n@return Returns a reference to this object so that method calls can be chained together.\n@see #key(String)"

"deprecated" : false,
"documentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterMethodName" : "key",
"fluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>\n\n@return Returns a reference to this object so that method calls can be chained together."

"getterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>\n\n@return Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.
@see #key(String)
@return Returns a reference to this object so that method calls can be chained together."

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the &lt;code&gt;TagKey&lt;/code&gt;, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.&lt;/p&gt;

@Param key Specifies the &lt;code&gt;TagKey&lt;/code&gt;, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.",

"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "Specifies the &lt;code&gt;TagKey&lt;/code&gt;, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.&lt;/p&gt;",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "Value",
"c2jShape" : "TagValue",
"defaultConsumerFluentSetterDocumentation" : "Specifies the &lt;code&gt;TagValue&lt;/code&gt;, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of &lt;code&gt;project: Trinity&lt;/code&gt; and &lt;code&gt;cost-center: Trinity&lt;/code&gt;&lt;/p&gt;\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #value(String)].\n\n@Param value a consumer that will call methods on [@link String.Builder]\n\n@Return Returns a reference to this object so that method calls can be chained together.\n\n@see #value(String)",
"deprecated" : false,
"documentation" : "Specifies the &lt;code&gt;TagValue&lt;/code&gt;, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag
set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : 
"<p>Specifies the `<code>TagValue</code>`, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`.

@returns {String} Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "value",
"getterDocumentation" : 
"<p>Specifies the `<code>TagValue</code>`, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`.

@returns {String} Specifies the `<code>TagValue</code>`, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`.

@returns {String} Returns a reference to this object so that method calls can be chained together.
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Value",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"sensitive" : false,

"setterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.<br>
Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

@param value
 Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

"setterMethodName" : "setValue",

"setterModel" : {

"variableDeclarationType" : "String",

"variableName" : "value",

"variableType" : "String",

"documentation" : null,

"simpleType" : "String",

"variableSetterType" : "String"
}

"simple" : true,

"timestampFormat" : null,

"variable" : {

"variableDeclarationType" : "String",

"variableName" : "value",

"variableType" : "String",

"documentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.<br>
Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

@param value
 Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

"setterMethodName" : "setValue",

"setterModel" : {

"variableDeclarationType" : "String",

"variableName" : "value",

"variableType" : "String",

"documentation" : null,

"simpleType" : "String",

"variableSetterType" : "String"
}

"simple" : true,

"timestampFormat" : null,

"variable" : {

"variableDeclarationType" : "String",

"variableName" : "value",

"variableType" : "String",

"documentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.<br>
Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

@param value
 Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

"setterMethodName" : "setValue",

"setterModel" : {

"variableDeclarationType" : "String",

"variableName" : "value",

"variableType" : "String",

"documentation" : null,

"simpleType" : "String",

"variableSetterType" : "String"
}

"simple" : true,

"timestampFormat" : null,

"variable" : {

"variableDeclarationType" : "String",

"variableName" : "value",

"variableType" : "String",

"documentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.<br>
Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

@param value
 Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.
for the Elasticsearch domain to which they are attached.</p>

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>

@end_param key Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>

return Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached."

"getterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>

@return Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached."

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Key",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,

"setterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>"
TagKey, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.

setterMethodName": "setKey",
"setterModel": {
    "variableDeclarationType": "String",
    "variableName": "key",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": { 
    "variableDeclarationType": "String",
    "variableName": "key",
    "variableType": "String",
    "documentation": "Specifies the TagKey, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.",
    "simpleType": "String",
    "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"Value": { 
    "beanStyleGetterMethodName": "getValue",
    "beanStyleSetterMethodName": "setValue",
    "c2jName": "Value",
    "c2jShape": "TagValue",
    "defaultConsumerFluentSetterDocumentation": "Specifies the TagValue, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of project : Trinity and cost-center : Trinity. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String.Builder\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder\} is called immediately and its result is passed to \{@link #value(String)\}.\n\n@see #value(String)",
    "deprecated": false,
    "documentation": "Specifies the TagValue, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of project : Trinity and cost-center : Trinity.\n\n@endparam value a consumer that will call methods on \{@link String.Builder\}\n\n@see #value(String)",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "value",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "value",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "value",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "value",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "value",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "value",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
"fluentSetterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code> and <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

@param value Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName" : "value",

"getterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

@return Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Value",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "Value",

"sensitive" : false,

"setterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and
do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`,

```json
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "Key",
    "c2jShape" : "TagKey",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the `<code>TagValue</code>`, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`.
    
</p>

  }
},

"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "Key",
    "c2jShape" : "TagKey",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the `<code>TagKey</code>`, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.<p>

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #key(String)]

@param key a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.

@see #key(String)
"
  }
},

"deprecated" : false,
"documentation" : "<p>Specifies the `<code>TagKey</code>`, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterMethodName" : "key",
"getterMethodComment" : null,
"getterMethodName" : "getKey",
"getterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "Key",
    "c2jShape" : "TagKey",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the `<code>TagKey</code>`, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.<p>

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #key(String)]

@param key a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.

@see #key(String)
"
  }
},

"deprecated" : false,
"documentation" : "<p>Specifies the `<code>TagKey</code>`, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterMethodName" : "key",
"getterMethodComment" : null,
"getterMethodName" : "getKey",
"getterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "Key",
    "c2jShape" : "TagKey",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the `<code>TagKey</code>`, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.<p>

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #key(String)]

@param key a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.

@see #key(String)
"
  }
}];
```
"fluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>\n@param key Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.\n@return Returns a reference to this object so that method calls can be chained together. ",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>\n@return Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached. ",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Key",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>\n@param key Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached. ",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
"simpleType": "String",
"variableString": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": "<p>SPECIFIES the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>",
"simple": "String",
"variableString": "String"
},
"xmlNameSpaceUri": null,
{
"beanStyleGetterMethodName": "getValue",
"beanStyleSetterMethodName": "setValue",
"c2jName": "Value",
"c2jShape": "TagValue",
"defaultConsumerFluentSetterDocumentation": "<p>SPECIFIES the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center: Trinity</code>. This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link #builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #value(String)].

When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #value(String)].

@see #value(String)",
"deprecated": false,
"documentation": "<p>SPECIFIES the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center: Trinity</code>. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #value(String)].

When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #value(String)].

@see #value(String)",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "value",
"fluentSetterDocumentation": "<p>SPECIFIES the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center: Trinity</code>. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #value(String)].

When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #value(String)].

@see #value(String)",
"getterDocumentation": "<p>SPECIFIES the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center: Trinity</code>. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #value(String)].

When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #value(String)].

@see #value(String)"}
Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`.

```json
"getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Value",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"sensitive" : false,

"setterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.

```
"variableSetterType" : "String",
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Key", "Value" ],
"shapeName" : "Tag",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "tag",
  "variableType" : "Tag",
  "documentation" : null,
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"wrapper" : false
},
"UpdateElasticsearchDomainConfigRequest" : {
  "c2jName" : "UpdateElasticsearchDomainConfigRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Container for the parameters to the <code><a>UpdateElasticsearchDomain</a></code> operation. Specifies the type and number of instances in the domain cluster.</p>",
  "endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
  "action" : "UpdateElasticsearchDomainConfig",
  "locationName" : null,
  "requestUri" : "/2015-01-01/es/domain/{DomainName}/config",
  "target" : null,
  "verb" : "POST",
  "xmlNameSpaceUri" : null
},
"members" : [
  {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "\n\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}.\n\n@param domainName a consumer that will call methods on \{@link String.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #domainName(String)"
  },
  "deprecated" : false,
  "documentation" : "\nThe name of the Elasticsearch domain that you are updating. \</p>\n\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}.\n\n@param domainName a consumer that will call methods on \{@link String.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #domainName(String)"
  },
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "null",
  "fluentEnumSetterMethodName" : "null",
  "fluentGetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "\nThe name of the Elasticsearch domain that you are updating. \</p>\n\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}.\n\n@param domainName a consumer that will call methods on \{@link String.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #domainName(String)"
  },
  "getterDocumentation" : "\nThe name of the Elasticsearch domain that you are updating. \</p>\n\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}.\n\n@param domainName a consumer that will call methods on \{@link String.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #domainName(String)"
  },
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  }
],
"marshalledLocationName" : "null",
"marshalledPermission" : null,
"marshalledUri" : null,
"marshaller" : null,
"marshallerTargetName" : null,
"marshallerTargetVerb" : null,
"marshallerVerb" : null,
"marshallerXmlNameSpaceUri" : null,
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "uri",
  "marshallLocation": "PATH",
  "marshallLocationName": "DomainName",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "DomainName",
  "uri": true
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "DomainName",
" sensitive": false,
"setterDocumentation": "<p>The name of the Elasticsearch domain that you are updating. </p>
@param domainName The name of the Elasticsearch domain that you are updating.",
"setterMethodName": "setDomainName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "<p>The name of the Elasticsearch domain that you are updating. </p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
This is a convenience that creates an instance of the ElasticsearchClusterConfig.Builder avoiding the need to create one manually via ElasticsearchClusterConfig#builder(). When the ElasticsearchClusterConfig.Builder#build() is called immediately and its result is passed to ElasticsearchClusterConfig(ElasticsearchClusterConfig) a consumer that will call methods on ElasticsearchClusterConfig.Builder#return Returns a reference to this object so that method calls can be chained together. see ElasticsearchClusterConfig(ElasticsearchClusterConfig)",

deprecated": false,
"documentation": "The type and number of instances to instantiate for the domain cluster.
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "elasticsearchClusterConfig",
"fluentSetterDocumentation": "The type and number of instances to instantiate for the domain cluster.
"fluentSetterMethodName": "elasticsearchClusterConfig",
"getterDocumentation": "The type and number of instances to instantiate for the domain cluster.
"getterModel": {
  "returnType": "ElasticsearchClusterConfig",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "ElasticsearchClusterConfig",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "ElasticsearchClusterConfig",
  "uri": false
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"sensitive" : false,
"setterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.
@param elasticsearchClusterConfig The type and number of instances to instantiate for the domain cluster.
</p>
@param elasticsearchClusterConfig The type and number of instances to instantiate for the domain cluster.",
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : "<p>The type and number of instances to instantiate for the domain cluster.
</p>
"simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
"defaultConsumerFluentSetterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>

"deprecated" : false,
"documentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
"endpointDiscoveryId" : false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "ebsOptions",
"fluentSetterMethodName": "ebsOptions",
"getterDocumentation": "\n<p>Specify the type and size of the EBS volume that you want to use.\n@param ebsOptions Specify the type and size of the EBS volume that you want to use.\n@return Returns a reference to this object so that method calls can be chained together.\n</p>\n\ngetterDocumentation": "\n<p>Specify the type and size of the EBS volume that you want to use.\n</p>\n@return Specify the type and size of the EBS volume that you want to use.\ngetterModel": {
"returnType": "EBSOptions",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "EBSOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "EBSOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "EBSOptions",
"sensitive": false,
"setterDocumentation": "\n<p>Specify the type and size of the EBS volume that you want to use.\n@param ebsOptions Specify the type and size of the EBS volume that you want to use.\nsetterMethodName": "setEbsOptions",
"setterModel": {
"variableDeclarationType": "EBSOptions",
"variableName": "ebsOptions"
"variableType" : "EBSOptions",
"documentation" : null,
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
  "documentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>",
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
  "beanStyleGetterMethodName" : "getSnapshotOptions",
  "beanStyleSetterMethodName" : "setSnapshotOptions",
  "c2jName" : "SnapshotOptions",
  "c2jShape" : "SnapshotOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
  <p>This is a convenience that creates an instance of the \{ @link SnapshotOptions.Builder \} avoiding the need to create one manually via \{ @link SnapshotOptions#builder() \}. When the \{ @link Consumer \} completes, \{ @link SnapshotOptions.Builder#build() \} is called immediately and its result is passed to \{ @link SnapshotOptions(\{SnapshotOptions\}) \} \{ @link \#snapshotOptions(\{SnapshotOptions\}) \} a consumer that will call methods on \{ @link SnapshotOptions.Builder\} \{ @link @return Returns a reference to this object so that method calls can be chained together.\}\{ @see \#snapshotOptions(\{SnapshotOptions\}) \}
  
  "deprecated" : false,
  "documentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventIdHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "snapshotOptions",
  "fluentSetterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
  <p>@param snapshotOptions Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.\n@return Returns a reference to this object so that method calls can be chained together.\"",
  "fluentSetterMethodName" : "snapshotOptions",
  "getterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
  <p>@return Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
  "getterModel" : 

"returnType" : "SnapshotOptions",
"documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "SnapshotOptions",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "SnapshotOptions",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
@param snapshotOptions Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
 "variableDeclarationType" : "SnapshotOptions",
 "variableName" : "snapshotOptions",
 "variableType" : "SnapshotOptions",
 "documentation" : null,
 "simpleType" : "SnapshotOptions",
 "variableSetterType" : "SnapshotOptions"
 },
"simple" : false,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "SnapshotOptions",
 "variableName" : "snapshotOptions",
 "variableType" : "SnapshotOptions",
 "documentation" : "\nOption to set the time, in UTC format, for the daily automated snapshot. Default value
Options to specify the subnets and security groups for VPC endpoint. For more information, see [Creating a VPC](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc) in VPC Endpoints for Amazon Elasticsearch Service Domains. This is a convenience that creates an instance of the [VPCOptions.Builder](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-vpc-builder) avoiding the need to create one manually via `VPCOptions#builder()`. When the Consumer completes, `VPCOptions.Builder#build()` is called immediately and its result is passed to a consumer that will call methods on `VPCOptions.Builder`. `return` Returns a reference to this object so that method calls can be chained together. See `VPCOptions(VPCOptions)`. **Deprecated**: false, **Documentation**: Options to specify the subnets and security groups for VPC endpoint. For more information, see [Creating a VPC](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc) in VPC Endpoints for Amazon Elasticsearch Service Domains. **EndpointDiscoveryId**: false, **EnumType**: null, **EventHeader**: false, **EventPayload**: false, **FluentEnumGetterMethodName**: null, **FluentEnumSetterMethodName**: null, **FluentGetterMethodName**: vpcOptions, **FluentSetterDocumentation**: Options to specify the subnets and security groups for VPC endpoint. For more information, see [Creating a VPC](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc) in VPC Endpoints for Amazon Elasticsearch Service Domains. **GetterDocumentation**: Options to specify the subnets and security groups for VPC endpoint. For more information, see [Creating a VPC](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc) in VPC Endpoints for Amazon Elasticsearch Service Domains. **GetterModel**: { }
"returnType" : "VPCOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"setterMethodDescription" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more
information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-
creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service
Domains</i></p>\n\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For
more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-
vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service
Domains</i>"",
"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "VPCOptions",
"variableName" : "vpcOptions",
"variableType" : "VPCOptions",
"documentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html) where endpointDiscoveryId is true.

"simpleType" : "VPCOptions",
"variableSetterType" : "VPCOptions"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getCognitoOptions",
"beanStyleSetterMethodName" : "setCognitoOptions",
"c2jName" : "CognitoOptions",
"c2jShape" : "CognitoOptions",
"defaultConsumerFluentSetterDocumentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html) where endpointDiscoveryId is true.

"deprecated" : false,
"documentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html)

"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "null",
"fluentEnumSetterMethodName" : "null",
"fluentGetterMethodName" : "cognitoOptions",
"fluentSetterDocumentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html)

"getterDocumentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html)

"fluentSetterMethodName" : "cognitoOptions",
"getterDocumentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html)
Amazon Cognito Authentication for Kibana</a>.

For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.

```java
public static CognitoOptions setCognitoOptions(CognitoOptions cognitoOptions) {
    // Code to set Cognito options
}
```
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "CognitoOptions",
"variableName" : "cognitoOptions",
"variableType" : "CognitoOptions",
"documentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>",
"simpleType" : "CognitoOptions",
"variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getAdvancedOptions",
"beanStyleSetterMethodName" : "setAdvancedOptions",
"c2jName" : "AdvancedOptions",
"c2jShape" : "AdvancedOptions",
"defaultValueSetterDocumentation" : "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.<br>This is a convenience that creates an instance of the <code>Map<String,String>.Builder</code> avoiding the need to create one manually via <code>Map<String,String>#builder()</code>. When the <code>Consumer</code> completes, <code>Map<String,String>.Builder#build()</code> is called immediately and its result is passed to <code>Map<String,String>.Builder</code>.

When the <code>@param advancedOptions</code> a consumer that will call methods on <code>Map<String,String>.Builder</code>.

@see #advancedOptions(Map<String,String>)
@deprecated
"documentation" : "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",
"fluentSetterDocumentation" : "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>",
"deprecated" : false,
Configuration Advanced Options

Attempts to modify the collection returned by this method will result in an UnsupportedOperation
Exception.

@return Modifies the advanced option to allow references to indices in an HTTP request body. Must be<br />false when configuring access to individual sub-resources. By default, the value is<br />true. See Configuration Advanced Options for more information.

```

"fluentSetterMethodName" : "advancedOptions",
"getterDocumentation" : "Modifies the advanced option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See Configuration Advanced Options for more information."

"getterModel" : {
  "returnType" : "java.util.Map<String,String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AdvancedOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AdvancedOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "ImplType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
  }
}
```
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to String.value().

@return Returns a reference to this object so that method calls can be chained together.

@see #value(String)"
",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventId" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterMethodName" : null,
  "variable\n"}
"fluentSetterDocumentation": "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName": "value",
"getterDocumentation": "Returns the value of the Value property for this object.\n\n@return The value of the Value property for this object."

"getterModel": {
"returnType": "String",
"documentation": null
}

"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "value",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "value",
"uri": false
}

"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Value",
"sensitive": false,
"setterDocumentation": "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together."

"setterMethodName": "setValue",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "value",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
}

"simple": true,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "String",
    "variableName": "value",
    "variableType": "String",
    "documentation": "",
    "simpleType": "String",
    "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"entryType": "Map.Entry<String, String>",
"templateType": "java.util.Map<String,String>",
"marshallingType": "MAP",
"name": "AdvancedOptions",
"sensitive": false,
"setterDocumentation": 
  "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>

  @param advancedOptions Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.
",
"setterMethodName": "setAdvancedOptions",
"setterModel": {
    "variableDeclarationType": "java.util.Map<String,String>",
    "variableName": "advancedOptions",
    "variableType": "java.util.Map<String,String>",
    "documentation": null,
    "simpleType": "Map<String,String>",
    "variableSetterType": "java.util.Map<String,String>",
},
"simple": false,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "java.util.Map<String,String>",
    "variableName": "advancedOptions",
    "variableType": "java.util.Map<String,String>",
    "documentation": "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>
",
"simpleType": "Map<String,String>"
"variableSetterType" : "java.util.Map<String,String>",
"xmlNameSpaceUri" : null
],
  {
    "beanStyleGetterMethodName" : "getAccessPolicies",
    "beanStyleSetterMethodName" : "setAccessPolicies",
    "c2jName" : "AccessPolicies",
    "c2jShape" : "PolicyDocument",
    "defaultConsumerFluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string. This is a convenience that creates an instance of the @link String.Builder avoiding the need to create one manually via @link String#builder(). When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link accessPolicies(String).\n@returns a reference to this object so that method calls can be chained together.\n@see #accessPolicies(String)"
  },
  "deprecated" : false,
  "documentation" : "<p>IAM access policy as a JSON-formatted string.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "accessPolicies",
  "fluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
  @param accessPolicies IAM access policy as a JSON-formatted string.\n@returns Returns a reference to this object so that method calls can be chained together."
  },
  "getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "AccessPolicies",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "AccessPolicies",
    "uri" : false
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"sensitive" : false,
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string,",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "accessPolicies",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "accessPolicies",
"variableType" : "String",
"documentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string,",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,

"beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
"beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
"c2jName" : "LogPublishingOption",
"c2jShape" : "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>

This is a convenience that creates an instance of the {@link Map<String,LogPublishingOption>.Builder} avoiding the need to create one manually via {@link Map<String,LogPublishingOption>#builder()}. When the {@link MapConsumer} completes, {@link Map<String,LogPublishingOption>.Builder#build()} is called immediately and its result is passed to {@link LogPublishingOptionsAsStrings(Map<String,LogPublishingOption>)}. Returns a reference to this object so that method calls can be chained together.
@see LogPublishingOptionsWithStrings(Map<String,LogPublishingOption>)",
"deprecated" : false,
"documentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\n@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\n@return Returns a reference to this object so that method calls can be chained together.\</p>
"fluentSetterMethodName" : "logPublishingOptionsWithStrings",
"getterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n@return Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\</p>
"getterModel" : {
  "returnType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LogPublishingOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LogPublishingOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map"
"keyLocationName": "key",
"keyModel": {
  "beanStyleGetterMethodName": "getKeyAsString",
  "beanStyleSetterMethodName": "setKey",
  "c2jName": "key",
  "c2jShape": "LogType",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #keyAsString(String)}. The param key a consumer that will call methods on { @link String.Builder}. Returns a reference to this object so that method calls can be chained together. @param key a consumer that will call methods on { @link String.Builder}. @return Returns a reference to this object so that method calls can be chained together.
  @see #key(String)",
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
  "enumType": "LogType",
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": "key",
  "fluentEnumSetterMethodName": "key",
  "fluentGetterMethodName": "keyAsString",
  "fluentSetterDocumentation": "Sets the value of the Key property for this object.

The new value for the Key property for this object.

Returns a reference to this object so that method calls can be chained together.
@see LogType",
  "fluentSetterMethodName": "key",
  "getterDocumentation": "Returns the value of the Key property for this object. If the service returns an enum value that is not available in the current SDK version, { @link LogType#UNKNOWN_TO_SDK_VERSION} will return { @link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link #keyAsString}. The param key a consumer that will call methods on { @link String.Builder}. @return The value of the Key property for this object.
  @see LogType",
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "key",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "key",
    "uri": false
  },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.

@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the @link LogPublishingOption.Builder avoiding the need to create one manually via (@link LogPublishingOption#builder()).

When the @link Consumer completes, (@link LogPublishingOption.Builder#build()) is called immediately and its result is passed to (@link #value(LogPublishingOption)).

@see #value(LogPublishingOption)",
"deprecated" : false,
"documentation" : "", 
"endpointDiscoveryId" : false, 
"enumType" : null, 
"eventHeader" : false, 
"eventPayload" : false, 
"fluentEnumGetterMethodName" : null, 
"fluentEnumSetterMethodName" : null, 
"fluentGetterMethodName" : "value", 
"fluentSetterDocumentation" : "Sets the value of the Value property for this object. \n\n@param value The new value for the Value property for this object.\n@return Returns a reference to this object so that method calls can be chained together.", 
"fluentSetterMethodName" : "value", 
"getterDocumentation" : "Returns the value of the Value property for this object.\n\n@return The value of the Value property for this object.", 
"getterModel" : { 
  "returnType" : "LogPublishingOption", 
  "documentation" : null 
}, 
"http" : { 
  "additionalMarshallingPath" : null, 
  "additionalUnmarshallingPath" : null, 
  "flattened" : false, 
  "greedy" : false, 
  "header" : false, 
  "isPayload" : false, 
  "isStreaming" : false, 
  "location" : null, 
  "marshallLocation" : "PAYLOAD", 
  "marshallLocationName" : "value", 
  "queryString" : false, 
  "statusCode" : false, 
  "unmarshallLocationName" : "value", 
  "uri" : false 
}, 
"idempotencyToken" : false, 
"isBinary" : false, 
"jsonValue" : false, 
"list" : false, 
"listModel" : null, 
"map" : false, 
"mapModel" : null, 
"marshallingType" : "SDK_POJO", 
"name" : "Value", 
"sensitive" : false, 
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.", 
"setterMethodName" : "setValue", 
"setterModel" : { 

"variableDeclarationType" : "LogPublishingOption",
"variableName" : "value",
"variableType" : "LogPublishingOption",
"documentation" : null,
"simpleType" : "LogPublishingOption",
"variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "LogPublishingOption",
"variableName" : "value",
"variableType" : "LogPublishingOption",
"documentation" : null,
"simpleType" : "LogPublishingOption",
"variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
",
"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
"variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
"variableName" : "logPublishingOptions",
"variableType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : null,
"simpleType" : "Map<String,LogPublishingOption>",
"variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
"variableName" : "logPublishingOptions",
"variableType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>",
"simpleType" : "Map<String,LogPublishingOption>",
"variableSetterType" : "java.util.Map<String,LogPublishingOption>"
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "AccessPolicies" : {
    "beanStyleGetterMethodName" : "getAccessPolicies",
    "beanStyleSetterMethodName" : "setAccessPolicies",
    "c2jName" : "AccessPolicies",
    "c2jShape" : "PolicyDocument",
    "defaultConsumerFluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #accessPolicies(String)}.\n@param accessPolicies a consumer that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #accessPolicies(String)",
    "deprecated" : false,
    "documentation" : "<p>IAM access policy as a JSON-formatted string.</p>",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "accessPolicies",
    "fluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>\n@param accessPolicies IAM access policy as a JSON-formatted string.\n@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "accessPolicies",
    "getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>\n@return IAM access policy as a JSON-formatted string.",
    "getterModel" : {
      "returnType" : "String",
      "documentation" : null
    },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "AccessPolicies",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "AccessPolicies",
@param advancedOptions a consumer that will call methods on \{ @link Map\<String,String\>\}.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #advancedOptions(Map\<String,String\>)",
  "deprecated" : false,
  "documentation" : "Modifies the advanced option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See "http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank" Configure Advanced Options\n for more information.\n",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentSetterMethodName" : "advancedOptions",
  "fluentSetterDocumentation" : "Modifies the advanced option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See "http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank" Configure Advanced Options\n for more information.\n",
  "getterDocumentation" : "Modifies the advanced option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See "http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank" Configure Advanced Options\n for more information.\n",
  "getterModel" : {
    "returnType" : "java.util.Map\<String,String\>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AdvancedOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AdvancedOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.
This is a convenience that creates an instance of the \{ @link String.Builder} avoiding the need to create one manually via \{ @link String.Builder#builder()}\nWhen the \{ @link Consumer} completes, \{ @link String.Builder#build()} is called immediately and its result is passed to \{ @link #key(String))\n\param key a consumer that will call methods on \{ @link String.Builder}\n\return Returns a reference to this object so that method calls can be chained together.\n\see #key(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "key",
    "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\n\param key The new value for the Key property for this object.\n\n\return Returns a reference to this object so that method calls can be chained together.\n",
    "fluentSetterMethodName" : "key",
    "getterDocumentation" : "Returns the value of the Key property for this object.\n\n\return The value of the Key property for this object.\n",
    "getterModel" : {
      "returnType" : "String",
      "documentation" : null
    }
  }
}
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "key",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "key",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"sensitive": false,
"setterDocumentation": "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.",
"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
}
"xmlNameSpaceUri" : null,
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to the consumer that will call methods on the String.Builder.\n\n@see #value(String)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@see #value(String)",
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.
",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "value",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "value",
    "uri" : false
  }
},

"xmlNameSpaceUri" : null
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\n\n@method setValue",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>
",
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"sensitive" : false,
"setterDocumentation" : "Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.\n\n@method setValue Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information."}
createdomain-configure-advanced-options</a> for more information.

"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createdomain-configure-advanced-options.html" target="_blank">Configuration Advanced Options</a> for more information.</p>",
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>",
},
"xmlNameSpaceUri" : null,

"CognitoOptions" : {
  "beanStyleGetterMethodName" : "getCognitoOptions",
  "beanStyleSetterMethodName" : "setCognitoOptions",
  "c2jName" : "CognitoOptions",
  "c2jShape" : "CognitoOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. <p>This is a convenience that creates an instance of the {@link CognitoOptions.Builder} avoiding the need to create one manually via { @link CognitoOptions.Builder#builder() }. When the { @link Consumer } completes, { @link CognitoOptions.Builder#build()} is called immediately and its result is passed to { @link #cognitoOptions(CognitoOptions) }. @param cognitoOptions a consumer that will call methods on { @link CognitoOptions.Builder}@return Returns a reference to this object so that method calls can be chained together.@code
  @see #cognitoOptions(CognitoOptions)
  "deprecated" : false,
  "documentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. </p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventTypeHeader" : false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "cognitoOptions",
"fluentSetterDocumentation": "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>
@param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.  
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "cognitoOptions",
"getterDocumentation": "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>  
@return Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"getterModel": {
"returnType": "CognitoOptions",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "CognitoOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "CognitoOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "CognitoOptions",
"sensitive": false,
Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see
Amazon Cognito Authentication for Kibana.

```
@param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more
information, see Amazon Cognito Authentication for Kibana.
```

```
DomainName

This is a convenience that creates an instance of the String.Builder avoiding the need to
create one manually via String.Builder().
When the @link Consumer completes, String.Builder.build() is called immediately and its result is passed to
DomainName a consumer that will call methods on String.Builder.

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"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you are updating.\n@param domainName The name of the Elasticsearch domain that you are updating.\n@return Returns a reference to this object so that method calls can be chained together.\n"",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The name of the Elasticsearch domain that you are updating.\n@return The name of the Elasticsearch domain that you are updating.\n",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"typeName" : "SchemaType",
"type" : "primitive",
"setterDocumentation" : "<p>The name of the Elasticsearch domain that you are updating.\n@param domainName The name of the Elasticsearch domain that you are updating.\n",
"setterMethodId" : 
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"}
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the Elasticsearch domain that you are updating. </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"EBSOptions" : {
  "beanStyleGetterMethodName" : "getEbsOptions",
  "beanStyleSetterMethodName" : "setEbsOptions",
  "c2jName" : "EBSOptions",
  "c2jShape" : "EBSOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
This is a convenience that creates an instance of the { @link EBSOptions.Builder } avoiding the need to create one manually via { @link EBSOptions#builder() }. When the { @link Consumer } completes, { @link EBSOptions.Builder#build() } is called immediately and its result is passed to { @link #ebsOptions(EBSOptions) }. @param ebsOptions a consumer that will call methods on { @link EBSOptions.Builder } @return Returns a reference to this object so that method calls can be chained together. @see #ebsOptions(EBSOptions)",
  "deprecated" : false,
  "documentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "ebsOptions",
  "fluentSetterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
@param ebsOptions Specify the type and size of the EBS volume that you want to use.
@return Returns a reference to this object so that method calls can be chained together.".,
  "fluentSetterMethodName" : "ebsOptions",
  "getterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
@return Specify the type and size of the EBS volume that you want to use.",
  "getterModel" : {
    "returnType" : "EBSOptions",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "EBSOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "EBSOptions",
"uri": false,
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "EBSOptions",
"sensitive": false,
"setterDocumentation": "<p>Specify the type and size of the EBS volume that you want to use. 
</p><param ebsOptions Specify the type and size of the EBS volume that you want to use. ">
"setterMethodName": "setEbsOptions",
"setterModel": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "ebsOptions",
  "variableType": "EBSOptions",
  "documentation": null,
  "simpleType": "EBSOptions",
  "variableSetterType": "EBSOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "ebsOptions",
  "variableType": "EBSOptions",
  "documentation": "<p>Specify the type and size of the EBS volume that you want to use. 
</p>"
},
"xmlNameSpaceUri": null
},
"ElasticsearchClusterConfig": {
  "beanStyleGetterMethodName": "getElasticsearchClusterConfig",
  "beanStyleSetterMethodName": "setElasticsearchClusterConfig",
  "c2jName": "ElasticsearchClusterConfig"}
"c2jShape" : "ElasticsearchClusterConfig",
"defaultConsumerFluentSetterDocumentation" : "<p>The type and number of instances to instantiate for the
domain cluster.</p> This is a convenience that creates an instance of the {@link
ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via {@link
ElasticsearchClusterConfig.Builder#builder()}. When the {@link Consumer} completes, {@link
ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to {@link
ElasticsearchClusterConfig(ElasticsearchClusterConfig)}.

When the {@link Consumer} completes, {@link ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to {@link
ElasticsearchClusterConfig(ElasticsearchClusterConfig)}.

@see ElasticsearchClusterConfig(ElasticsearchClusterConfig)"

"deprecated" : false,
"documentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventType" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterDocumentation" : "<p>The type and number of instances to instantiate for the domain
cluster.</p> @param elasticsearchClusterConfig The type and number of instances to instantiate for the domain
cluster. @return The type and number of instances to instantiate for the domain cluster."

"getterDocumentation" : "<p>The type and number of instances to instantiate for the domain
cluster.</p>
@return The type and number of instances to instantiate for the domain cluster.
"
"getterModel" : {
"returnType" : "ElasticsearchClusterConfig",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
    "variableDeclarationType" : "ElasticsearchClusterConfig",
    "variableName" : "elasticsearchClusterConfig",
    "variableType" : "ElasticsearchClusterConfig",
    "documentation" : null,
    "simpleType" : "ElasticsearchClusterConfig",
    "variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "ElasticsearchClusterConfig",
    "variableName" : "elasticsearchClusterConfig",
    "variableType" : "ElasticsearchClusterConfig",
    "documentation" : null,
    "simpleType" : "ElasticsearchClusterConfig",
    "variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
},
"LogPublishingOptions" : {
    "beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
    "beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
    "c2jName" : "LogPublishingOptions",
    "c2jShape" : "LogPublishingOptions",
    "defaultConsumerFluentSetterDocumentation" : "\n    Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
    \n    This is a convenience that creates an instance of the {@link Map<String,LogPublishingOption>.Builder} avoiding the need to create one manually via {@link Map<String,LogPublishingOption>#builder()}.\n    When the \n    \n    consumer will call methods on \n    \n    Map<String,LogPublishingOption>.Builder \n    \n    @return Returns a reference to this object so that method calls can be chained together.\n    @see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)",
    "deprecated" : false,
    "documentation" : "\n    Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
    \n    "endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n</p>",
"fluentSetterMethodName" : "logPublishingOptionsWithStrings",
"getterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n\n@returns Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.\n</p>",
"getterModel" : {
  "returnType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LogPublishingOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LogPublishingOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : 
}
"beanStyleGetterMethodName" : "getKeyAsString",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "key",
"c2jShape" : "LogType",
"defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link keyAsString(String)}. The parameter key is a consumer that will call methods on { @link String.Builder}.

@see #key(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : "LogType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "key",
"fluentEnumSetterMethodName" : "key",
"fluentGetterMethodName" : "keyAsString",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

The new value for the Key property for this object.

@see LogType

@return Returns a reference to this object so that method calls can be chained together.

@see LogType",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, { @link #key} will return { @link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link keyAsString}. The return value for this object.

@see LogType",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"sensitive": false,

"setterDocumentation": "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object
@see LogType",
"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "c2jName": "value",
  "c2jShape": "LogPublishingOption",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the LogPublishingOption.Builder avoiding the need to create one manually via LogPublishingOption#builder().

When the Consumer completes, LogPublishingOption.Builder#build() is called immediately and its result is passed to LogPublishingOption.value(LogPublishingOption). Returns a reference to this object so that method calls can be chained together.
@see #value(LogPublishingOption)",
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@returns {string} The new value for the Value property for this object.

@returns {LogPublishingOption} Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

@returns {LogPublishingOption} The value of the Value property for this object.

@returns {string} getterModel" : {
  "returnType" : "LogPublishingOption",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "value",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Value property for this object.

@returns {string} The new value for the Value property for this object.

@returns {LogPublishingOption} setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value"
"variableType" : "LogPublishingOption",
"documentation" : null,
"simpleType" : "LogPublishingOption",
"variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "LogPublishingOption",
"variableName" : "value",
"variableType" : "LogPublishingOption",
"documentation" : "",
"simpleType" : "LogPublishingOption",
"variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log."
,"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
"variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
"variableName" : "logPublishingOptions",
"variableType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : null,
"simpleType" : "Map<String,LogPublishingOption>",
"variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
"variableName" : "logPublishingOptions",
"variableType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log."
,"simpleType" : "Map<String,LogPublishingOption>",
"variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri" : null
"SnapshotOptions": {
  "beanStyleGetterMethodName": "getSnapshotOptions",
  "beanStyleSetterMethodName": "setSnapshotOptions",
  "c2jName": "SnapshotOptions",
  "c2jShape": "SnapshotOptions",
  "defaultConsumerFluentSetterDocumentation": "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. This is a convenience that creates an instance of the {@link SnapshotOptions.Builder} avoiding the need to create one manually via {@link SnapshotOptions#builder()}. When the {@link Consumer} completes, {@link SnapshotOptions.Builder#build()} is called immediately and its result is passed to {@link #snapshotOptions(SnapshotOptions)} a consumer that will call methods on {@link SnapshotOptions.Builder} and return. Returns a reference to this object so that method calls can be chained together. {@link #snapshotOptions(SnapshotOptions)}",
  "deprecated": false,
  "documentation": "Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "snapshotOptions",
  "fluentSetterDocumentation": "Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.
@param snapshotOptions Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.
@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName": "snapshotOptions",
  "getterDocumentation": "Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.
@return Option to set the time, in UTC format, for the daily automated snapshot.

"getterModel": {
  "returnType": "SnapshotOptions",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "SnapshotOptions",
  "queryString": false,
}
"statusCode" : false,
"unmarshallLocationName" : "SnapshotOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
@param snapshotOptions Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
"simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
},
"VPCOptions" : {
  "beanStyleGetterMethodName" : "getVpcOptions",
  "beanStyleSetterMethodName" : "setVpcOptions",
  "c2jName" : "VPCOptions",
  "c2jShape" : "VPCOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.&lt;/p&gt;" creating a VPC&lt;/a&gt; in &lt;i&gt;VPC Endpoints for Amazon Elasticsearch Service Domains&lt;/i&gt;.
the [@link VPCOptions.Builder] avoiding the need to create one manually via [@link VPCOptions#builder()].

When the [@link Consumer] completes, [@link VPCOptions.Builder#build()] is called immediately and its result is passed to [@link #vpcOptions(VPCOptions)].

@param vpcOptions a consumer that will call methods on [@link VPCOptions.Builder]

@return Returns a reference to this object so that method calls can be chained together.

@see #vpcOptions(VPCOptions)".

"deprecated" : false,

"documentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

endpointDiscoveryId" : false,

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : "null",

"fluentEnumSetterMethodName" : "null",

"fluentGetterMethodName" : "vpcOptions",

"fluentSetterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "vpcOptions",

"getterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

@return Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>

"getterModel" : {

"returnType" : "VPCOptions",

"documentation" : null
},

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : false,

"header" : false,

"isPayload" : false,

"isStreaming" : false,

"location" : null,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "VPCOptions"}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"sensitive" : false,

"setterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>
\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>",
"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>",
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"xmlnsNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "The name of the Elasticsearch domain that you are updating. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, the instance is called immediately and its result is passed to {@link String.Builder#build()}. To return a reference to this object so that method calls can be chained together, use: 

```java
return Returns a reference to this object so that method calls can be chained together.
```",  
"deprecated" : false,
"documentation" : "The name of the Elasticsearch domain that you are updating.

When the {@link Consumer} completes, the instance is called immediately and its result is passed to 

```java
String.Builder builder().
```

To return a reference to this object so that method calls can be chained together, use: 

```java
return Returns a reference to this object so that method calls can be chained together.
```",  
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "The name of the Elasticsearch domain that you are updating.

```

```java
return Returns a reference to this object so that method calls can be chained together.
```

To return a reference to this object so that method calls can be chained together, use: 

```java
return Returns a reference to this object so that method calls can be chained together.
```",  
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "The name of the Elasticsearch domain that you are updating.

```

```java
return Returns a reference to this object so that method calls can be chained together.
```

To return a reference to this object so that method calls can be chained together, use: 

```java
return Returns a reference to this object so that method calls can be chained together.
```",  
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"setterDocumentation" : "<p>The name of the Elasticsearch domain that you are updating. 
@param
\n@domainName
The name of the Elasticsearch domain that you are updating.
",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the Elasticsearch domain that you are updating. </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null,
}
"beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
"beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
"c2jName" : "ElasticsearchClusterConfig",
"c2jShape" : "ElasticsearchClusterConfig",
"defaultConsumerFluentSetterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.

This is a convenience that creates an instance of the 
    ElasticsearchClusterConfig.Builder] avoiding the need to create one manually via 
    ElasticsearchClusterConfig#builder()

When the \( @link ElasticsearchClusterConfig.Builder#build() \) is called immediately and its result is passed to 
    ElasticsearchClusterClusterConfig\(ElasticsearchClusterClusterConfig\) \( @param \) ElasticsearchClusterClusterConfig a consumer that 
will call methods on \( @link ElasticsearchClusterClusterConfig.Builder\) \n\n\n@returns

Returns a reference to this object so that method calls can be chained together.
@see 

\n
"deprecated" : false,
"documentation" : "<p>The type and number of instances to instantiate for the domain cluster. </p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "elasticsearchClusterConfig",
"fluentSetterDocumentation": "<p>The type and number of instances to instantiate for the domain
cluster.</p>
@param elasticsearchClusterConfig The type and number of instances to instantiate for the domain
cluster.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "elasticsearchClusterConfig",
"getterDocumentation": "<p>The type and number of instances to instantiate for the domain
cluster.</p>
@return The type and number of instances to instantiate for the domain cluster.",
"getterModel": {
"returnType": "ElasticsearchClusterConfig",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "ElasticsearchClusterConfig",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ElasticsearchClusterConfig",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "ElasticsearchClusterConfig",
"sensitive": false,
"setterDocumentation": "<p>The type and number of instances to instantiate for the domain
cluster.</p>
@param elasticsearchClusterConfig The type and number of instances to instantiate for the domain
cluster.",
"setterMethodName": "setElasticsearchClusterConfig",
"setterModel": {
"variableDeclarationType": "ElasticsearchClusterConfig",
"variableName": "elasticsearchClusterConfig",
"variableType": "ElasticsearchClusterConfig",
"documentation": null,
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ElasticsearchClusterConfig",
"variableName" : "elasticsearchClusterConfig",
"variableType" : "ElasticsearchClusterConfig",
"documentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>",
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
This is a convenience that creates an instance of the { @link EBSOptions.Builder} avoiding the need to create one manually via { @link EBSOptions#builder()}. When the { @link Consumer} completes, { @link EBSOptions.Builder#build()} is called immediately and its result is passed to { @link #ebsOptions(EBSOptions)}. @param ebsOptions a consumer that will call methods on { @link EBSOptions.Builder} @return Returns a reference to this object so that method calls can be chained together.@see #ebsOptions(EBSOptions).",
"deprecated" : false,
"documentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
Specify the type and size of the EBS volume that you want to use.
When the { @link Consumer} completes, { @link EBSOptions.Builder#build()} is called immediately and its result is passed to { @link #ebsOptions(EBSOptions)}.
Specify the type and size of the EBS volume that you want to use.
Specify the type and size of the EBS volume that you want to use."
}
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "EBSOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EBSOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"setterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. 
@param
ebsOptions Specify the type and size of the EBS volume that you want to use.
,"
"setterMethodName" : "setEbsOptions",
"setterModel" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
  "documentation" : null,
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
  "documentation" : "<p>Specify the type and size of the EBS volume that you want to use. 
"simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions"
Option to set the time, in UTC format, for the daily automated snapshot. Default value is `<code>0</code>` hours. This is a convenience that creates an instance of the `SnapshotOptions.Builder` avoiding the need to create one manually via `@link SnapshotOptions#builder()`. When the `@link Consumer` completes, `@link SnapshotOptions.Builder#build()` is called immediately and its result is passed to `@link SnapshotOptions(SnapshotOptions)`.

When the `@link Consumer` completes, `@link SnapshotOptions.Builder#build()` is called immediately and its result is passed to `@link SnapshotOptions(SnapshotOptions)`.

Returns a reference to this object so that method calls can be chained together.

```
@see snapshotOptions(SnapshotOptions)
```

Option to set the time, in UTC format, for the daily automated snapshot. Default value is `<code>0</code>` hours.

```
@return Returns a reference to this object so that method calls can be chained together.
```

Getters and setters:

Getters:

```
@getter

@getters
```

Setters:

```
@setters
```

Marshalling:

```
@marshalling
```

Unmarshalling:

```
@unmarshalling
```

### Endpoint Discovery Id

```
@endpointDiscoveryId
```

### Event Header

```
@eventHeader
```

### Event Payload

```
@eventPayload
```

### Fluent Enum Getter Method Name

```
@fluentEnumGetterMethodName
```

### Fluent Enum Setter Method Name

```
@fluentEnumSetterMethodName
```

### Fluent Getter Method Name

```
@fluentGetterMethodName
```

### Fluent Setter Documentation

```
@fluentSetterDocumentation
```

### Getter Documentation

```
@getterDocumentation
```

### Getter Model

```
@getterModel
```

### Http

```
@http
```

### Method Type

```
@methodType
```

### Operation Id

```
@operationId
```

### Operation Response

```
@operationResponse
```

### Operation Name

```
@operationName
```

### Parent Type

```
@parentType
```

### Request Marshalling Path

```
@requestMarshallingPath
```

### REQUEST Header

```
@requestHeader
```

### Request Payload

```
@requestPayload
```

### Request URI

```
@requestUri
```

### Response Marshalling Path

```
@responseMarshallingPath
```

### Response Header

```
@responseHeader
```

### Response Payload

```
@responsePayload
```

### RESPONSE Header

```
@responseHeader
```

### RESPONSE Payload

```
@responsePayload
```

### Status Code

```
@statusCode
```

### Status Code Docs

```
@statusCodeDocs
```

### Uri

```
@uri
```

### Uri Host

```
@uriHost
```

### Uri Path

```
@uriPath
```

### Uri Query String

```
@uriQueryString
```

### Uri Fragment

```
@uriFragment
```

### Uri Parameters

```
@uriParameters
```

### Fluent Getter Method Name

```
@fluentGetterMethodName
```

### Fluent Setter Method Name

```
@fluentSetterMethodName
```

### Marshal

```
@marshal
```

### Unmarshal

```
@unmarshal
```

### Marshal Location

```
@marshalLocation
```

### Unmarshal Location

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@unmarshalLocation
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### Marshalling Path

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@marshallingPath
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### Unmarshalling Path

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@unmarshallingPath
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### Marshalling

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@marshalling
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### Unmarshalling

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@unmarshalling
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### Request Marshalling

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@requestMarshalling
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### Request Unmarshalling

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@requestUnmarshalling
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### Response Marshalling

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@responseMarshalling
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### Response Unmarshalling

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@responseUnmarshalling
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### Response Marshalling Path

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@responseMarshallingPath
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@responseUnmarshallingPath
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### Response Unmarshalling

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@responseUnmarshalling
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### Request Unmarshalling Path

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@requestUnmarshallingPath
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### Response Marshalling Path

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@responseMarshallingPath
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### Response Unmarshalling Path

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@responseUnmarshallingPath
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### Response Marshalling

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@responseMarshalling
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### Response Unmarshalling

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@responseUnmarshalling
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### Request Marshalling

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@requestMarshalling
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### Request Unmarshalling

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### Response Marshalling

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@responseMarshalling
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### Response Unmarshalling

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@responseUnmarshalling
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### Request Marshalling Path

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@requestMarshallingPath
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### Request Unmarshalling Path

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@requestUnmarshallingPath
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### Response Marshalling Path

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@responseMarshallingPath
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### Response Unmarshalling Path

```
@responseUnmarshallingPath
```

### Response Marshalling

```
@responseMarshalling
```

### Response Unmarshalling

```
@responseUnmarshalling
```

```
@methodType
```
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. 
@<p/>
@param snapshotOptions Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC endpoint</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

This is a convenience that creates an instance of the <code>VPCOptions.Builder</code> avoiding the need to create one manually via <code>VPCOptions#builder()</code>. When the <code>VPCOptions.Builder</code> completes, <code>VPCOptions.Builder#build()</code> is called immediately and its result is passed to <code>VPCOptions#builder()</code>. The <code>vpcOptions</code> is returned. Returns a reference to this object so that method calls can be chained together."
@<p/>
param vpcOptions a consumer that will call methods on <code>VPCOptions.Builder</code>.
@<p/>
return Returns a reference to this object so that method calls can be chained together.
@see <code>vpcOptions(VPCOptions)</code>.
"
"deprecated" : false,
"documentation" : "Options to specify the subnets and security groups for VPC endpoint. For more
information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#escreating-vpc">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service
Domains</i>.",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For
more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#escreating-vpc">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.",
"getterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more
information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#escreating-vpc">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.
@return Options to specify the subnets and security groups for VPC endpoint. For more
information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#escreating-vpc">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.",
"getterModel" : {
"returnType" : "VPCOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCOptions",
"uri" : false
}
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "VPCOptions",
"sensitive": false,

"setterDocumentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>\n\n@\n\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

"setterMethodName": "setVpcOptions",
"setterModel": {
  "variableDeclarationType": "VPCOptions",
  "variableName": "vpcOptions",
  "variableType": "VPCOptions",
  "documentation": null,
  "simpleType": "VPCOptions",
  "variableSetterType": "VPCOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "VPCOptions",
  "variableName": "vpcOptions",
  "variableType": "VPCOptions",
  "documentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>\n\n@\n\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

"variableSetterType": "VPCOptions"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getCognitoOptions",
"beanStyleSetterMethodName": "setCognitoOptions",
"c2jName": "CognitoOptions",
"c2jShape": "CognitoOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication</a> for

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This is a convenience that creates an instance of the `CognitoOptions.Builder` avoiding the need to create one manually via `CognitoOptions#builder()`. When the `CognitoOptions#builder()` is called immediately and its result is passed to `CognitoOptions.CognitoOptionsBuilder`\n@return Returns a reference to this object so that method calls can be chained together.\n
Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html) for Kibana.

```java
public CognitoOptions withCognitoOptions(CognitoOptions cognitoOptions) {
    this.cognitoOptions = cognitoOptions;
    return this;
}
```

- **deprecated**: false
- **documentation**: "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see Amazon Cognito Authentication for Kibana."
"unmarshallLocationName" : "CognitoOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. </p>
@param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. </p>
",
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
}
resources. By default, the value is `<code>true</code>`. See `<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options">Configuration Advanced Options</a>` for more information.</p>\n
This is a convenience that creates an instance of the `{@link Map<String,String>.Builder}` avoiding the need to create one manually via `{@link Map<String,String>#builder()}`. When the `{@link Consumer}` completes, `{@link Map<String,String>.Builder#build()}` is called immediately and its result is passed to `{@link Map<String,String>.Builder#advancedOptions(Map<String,String>)}`.

```java
@deprecated
@see #advancedOptions(Map<String,String>)
```

- **endpointDiscoveryId**: false,
- **enumType**: null,
- **eventHeader**: false,
- **eventPayload**: false,
- **fluentEnumGetterMethodName**: null,
- **fluentEnumSetterMethodName**: null,
- **fluentGetterMethodName**: "advancedOptions",
- **fluentSetterDocumentation**: "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be `<code>false</code>` when configuring access to individual sub-resources. By default, the value is `<code>true</code>`. See `<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options">Configuration Advanced Options</a>` for more information.</p>\n
```

"getterDocumentation": "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be `<code>false</code>` when configuring access to individual sub-resources. By default, the value is `<code>true</code>`. See `<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options">Configuration Advanced Options</a>` for more information.</p>\n
```
```

"getterModel": {
  "returnType": "java.util.Map<String,String>",
  "documentation": null
},

"http": {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AdvancedOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AdvancedOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #key(String)\}.\n\n@see #key(String)",
    "deprecated" : false,
    "documentation" : ",",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "key",
    "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key a consumer that will call methods on \{@link String.Builder\}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #key(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "key",
    "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\n@returns Returns a reference to this object so that method calls can be chained together."};
"fluentSetterMethodName": "key",
"getterDocumentation": "Returns the value of the Key property for this object.
@returns The value of the Key property for this object.",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "key",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "key",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"sensitive": false,
"setterDocumentation": "Sets the value of the Key property for this object.
@param key The new value for the Key property for this object.",
"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
}
"variableName" : "key",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "String",
"defaultValueFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #value(String)}.

@default
@returns a reference to this object so that method calls can be chained together.
@see #value(String)",
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

@returns The value of the Value property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object."
,
"setterMethodName" : "setValue",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "value",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "value",
   "variableType" : "String",
   "documentation" : "",
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"setterDocumentation" : "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is

@param advancedOptions Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options">Configuration Advanced Options</a> for more information.

"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options">Configuration Advanced Options</a> for more information.</p>",
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>",
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getAccessPolicies",
"beanStyleSetterMethodName" : "setAccessPolicies",
"c2jName" : "AccessPolicies",
"c2jShape" : "PolicyDocument",
"defaultConsumerFluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via { @link String.Builder#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #accessPolicies(String) }. 

@param accessPolicies a consumer that will call methods on { @link String.Builder } 
@see #accessPolicies(String)"
, "deprecated" : false,
"documentation" : "<p>IAM access policy as a JSON-formatted string.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AccessPolicies",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AccessPolicies",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"sensitive" : false,
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "accessPolicies",
  "variableType" : "String",
  "documentation" : null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "accessPolicies",
"variableType": "String",
"documentation": "<p>IAM access policy as a JSON-formatted string.</p>",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlnsNameSpaceUri": null
}, {
"beanStyleGetterMethodName": "getLogPublishingOptionsAsStrings",
"beanStyleSetterMethodName": "setLogPublishingOptionsWithStrings",
"c2jName": "LogPublishingOptions",
"c2jShape": "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>

This is a convenience that creates an instance of the { @link Map<String,LogPublishingOption>.Builder } avoiding the need to create one manually via { @link Map<String,LogPublishingOption>#builder() }. When the { @link Consumer } completes, { @link Map<String,LogPublishingOption>.Builder#build() } is called immediately and its result is passed to { @link LogPublishingOptionsAsStrings(Map<String,LogPublishingOption>))}. @param logPublishingOptions a consumer that will call methods on { @link Map<String,LogPublishingOption>.Builder }\n@return Returns a reference to this object so that method calls can be chained together.\n@see LogPublishingOptionsWithStrings(Map<String,LogPublishingOption>)}",
"deprecated": false,
"documentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>",&
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "logPublishingOptions",
"fluentEnumSetterMethodName": "logPublishingOptions",
"fluentGetterMethodName": "logPublishingOptionsAsStrings",
"fluentSetterDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@returns Returns a reference to this object so that method calls can be chained together.\n@see LogPublishingOptionsWithStrings",
"getterDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@returns Returns a reference to this object so that method calls can be chained together.\n@see LogPublishingOptionsWithStrings"
"getterModel": {
  "returnType": "java.util.Map<String,LogPublishingOption>",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "LogPublishingOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "LogPublishingOptions",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": true,
"mapModel": {
  "implType": "java.util.HashMap",
  "interfaceType": "java.util.Map",
  "keyLocationName": "key",
  "keyModel": {
    "beanStyleGetterMethodName": "getKeyAsString",
    "beanStyleSetterMethodName": "setKey",
    "c2jName": "key",
    "c2jShape": "LogType",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via {link String.Builder#builder()}.\n\nWhen the {link Consumer} completes, {link String.Builder#build()} is called immediately and its result is passed to {link #keyAsString(String)}.\n\n@param key a consumer that will call methods on {link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
  "deprecated": false,
  "documentation": "",
  "enumType": "LogType",
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": "key",
...
"fluentEnumSetterMethodName" : "key",
"fluentGetterMethodName" : "keyAsString",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@see LogType
@return Returns a reference to this object so that method calls can be chained together.
@see LogType",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, @link #key will return @link LogType#UNKNOWN_TO_SDK_VERSION. The raw value returned by the service is available from @link #keyAsString)

@return The value of the Key property for this object.
@see LogType",
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "key",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "key",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "key",
    "variableType" : "String",
    "documentation" : null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "c2jName": "value",
  "c2jShape": "LogPublishingOption",
  "defaultValueConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the {@link LogPublishingOption.Builder} avoiding the need to create one manually via {@link LogPublishingOption.Builder#builder()}. When the {@link Consumer} completes, {@link LogPublishingOption.Builder#build()} is called immediately and its result is passed to {@link #value(LogPublishingOption)}.

@see #value(LogPublishingOption)

@deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "value",
  "fluentSetterDocumentation": "Sets the value of the Value property for this object.

The new value for the Value property for this object.

@see #value(LogPublishingOption)

@return Returns a reference to this object so that method calls can be chained together.

@return Returns a reference to this object so that method calls can be chained together.

@see #value(LogPublishingOption)

gettersetter": "value",
  "getterDocumentation": "Returns the value of the Value property for this object.

The value of the Value property for this object.

@see #value(LogPublishingOption)

@return Returns a reference to this object so that method calls can be chained together.

@see #value(LogPublishingOption)

getterModel": {
  "returnType": "LogPublishingOption",
  "documentation": null
},
"http": {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\n",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : "",
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
}
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String, LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"sensitive" : false,
"setterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each
containing options to publish a given type of Elasticsearch log.</p>
@param logPublishingOptions Map of
LogType and LogPublishingOption, each containing options to publish a given type of
Elasticsearch log.",
"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
"variableDeclarationType" : "java.util.Map<String, LogPublishingOption>",
"variableName" : "logPublishingOptions",
"variableType" : "java.util.Map<String, LogPublishingOption>",
"documentation" : null,
"simpleType" : "Map<String, LogPublishingOption>",
"variableSetterType" : "java.util.Map<String, LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.Map<String, LogPublishingOption>",
"variableName" : "logPublishingOptions",
"variableType" : "java.util.Map<String, LogPublishingOption>",
"documentation" : "<p>Map of LogType and LogPublishingOption, each
containing options to publish a given type of Elasticsearch log.</p>
@param logPublishingOptions Map of
LogType and LogPublishingOption, each containing options to publish a given type of
Elasticsearch log.",
"variableSetterType" : "java.util.Map<String, LogPublishingOption>"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "UpdateElasticsearchDomainConfigRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
"variableDeclarationType" : "UpdateElasticsearchDomainConfigRequest",
"variableName" : "updateElasticsearchDomainConfigRequest",
"variableType" : "UpdateElasticsearchDomainConfigRequest",
"documentation" : null,
"simpleType" : "UpdateElasticsearchDomainConfigRequest",
"variableSetterType" : "UpdateElasticsearchDomainConfigRequest"
},
"wrapper" : false
"UpdateElasticsearchDomainConfigResponse" : {
  "c2jName" : "UpdateElasticsearchDomainConfigResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "The result of an UpdateElasticsearchDomain request. Contains the status of the Elasticsearch domain being updated."
},
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [
  {
    "beanStyleGetterMethodName" : "getDomainConfig",
    "beanStyleSetterMethodName" : "setDomainConfig",
    "c2jName" : "DomainConfig",
    "c2jShape" : "ElasticsearchDomainConfig",
    "defaultConsumerFluentSetterDocumentation" : "The status of the updated Elasticsearch domain.
\nThis is a convenience that creates an instance of the ElasticsearchDomainConfig.Builder avoiding the need to create one manually via ElasticsearchDomainConfig#builder().\n\nWhen the ElasticsearchDomainConfig.Builder completes, ElasticsearchDomainConfig.Builder#build() is called immediately and its result is passed to ElasticsearchDomainConfig a consumer that will call methods on ElasticsearchDomainConfig.Builder with a return value that object so that method calls can be chained together.\n@see #domainConfig(ElasticsearchDomainConfig)",
    "deprecated" : false,
    "documentation" : "The status of the updated Elasticsearch domain."
  },
  {
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "domainConfig",
    "fluentSetterDocumentation" : "The status of the updated Elasticsearch domain.\n@returns a reference to this object so that method calls can be chained together."
  }
]
"fluentSetterMethodName" : "domainConfig",
"getterDocumentation" : "The status of the updated Elasticsearch domain. \n\nreturn The status of the updated Elasticsearch domain.",
"getterModel" : {
  "returnType" : "ElasticsearchDomainConfig",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainConfig",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainConfig",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainConfig",
"sensitive" : false,
"setterDocumentation" : "The status of the updated Elasticsearch domain. \n\n@param domainConfig The status of the updated Elasticsearch domain.
  
setterMethod" : "setDomainConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainConfig",
  "variableName" : "domainConfig",
  "variableType" : "ElasticsearchDomainConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainConfig",
  "variableSetterType" : "ElasticsearchDomainConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainConfig"
"variableName" : "domainConfig",
"variableType" : "ElasticsearchDomainConfig",
"documentation" : "The status of the updated Elasticsearch domain. \</p>",
"simpleType" : "ElasticsearchDomainConfig",
"variableSetterType" : "ElasticsearchDomainConfig"
},
"xmlNameSpaceUri" : null
} ],
"membersAsMap" : {
 "DomainConfig" : {
 "beanStyleGetterMethodName" : "getDomainConfig",
 "beanStyleSetterMethodName" : "setDomainConfig",
 "c2jName" : "DomainConfig",
 "c2jShape" : "ElasticsearchDomainConfig",
 "defaultConsumerFluentSetterDocumentation" : "The status of the updated Elasticsearch domain.
\</p>\nThis is a convenience that creates an instance of the \{ @link ElasticsearchDomainConfig.Builder \} avoiding
the need to create one manually via \{ @link ElasticsearchDomainConfig#builder() \}.\n\nWhen the \{ @link Consumer \} completes, \{ @link ElasticsearchDomainConfig.Builder#build() \} is called immediately and its result is
passed to \{ @link #domainConfig(ElasticsearchDomainConfig) \}.\n\n@param domainConfig a consumer that will call
methods on \{ @link ElasticsearchDomainConfig.Builder \}\n\n@return Returns a reference to this object so that method
calls can be chained together.\n\n@see #domainConfig(ElasticsearchDomainConfig)",
 "deprecated" : false,
 "documentation" : "The status of the updated Elasticsearch domain. \</p>",
 "endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "domainConfig",
 "fluentSetterDocumentation" : "The status of the updated Elasticsearch domain. \</p>\n\n@return Returns a reference to this object so that method
calls can be chained together.\n\n@see #domainConfig(ElasticsearchDomainConfig)",
 "fluentSetterMethodName" : "domainConfig",
 "getterDocumentation" : "The status of the updated Elasticsearch domain. \</p>\n\n@return The status of the updated Elasticsearch domain.\n\n@see #domainConfig(ElasticsearchDomainConfig)",
 "getterModel" : {
 "returnType" : "ElasticsearchDomainConfig",
 "documentation" : null
 },
 "http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "isStreaming" : false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "DomainConfig",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "DomainConfig",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "DomainConfig",
"sensitive": false,
"setterDocumentation": "\nThe status of the updated Elasticsearch domain.  
\n@param domainConfig
The status of the updated Elasticsearch domain."
,"setterMethodName": "setDomainConfig",
"setterModel": {
  "variableDeclarationType": "ElasticsearchDomainConfig",
  "variableName": "domainConfig",
  "variableType": "ElasticsearchDomainConfig",
  "documentation": null,
  "simpleType": "ElasticsearchDomainConfig",
  "variableSetterType": "ElasticsearchDomainConfig"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ElasticsearchDomainConfig",
  "variableName": "domainConfig",
  "variableType": "ElasticsearchDomainConfig",
  "documentation": "\nThe status of the updated Elasticsearch domain.  
\n",
  "simpleType": "ElasticsearchDomainConfig",
  "variableSetterType": "ElasticsearchDomainConfig"
},
"xmlNameSpaceUri": null
},
"nonStreamingMembers": [{
  "beanStyleGetterMethodName": "getDomainConfig",
  "beanStyleSetterMethodName": "setDomainConfig",
  "c2jName": "DomainConfig",
  "c2jShape": "ElasticsearchDomainConfig",
  "defaultConsumerFluentSetterDocumentation": "\nThe status of the updated Elasticsearch domain."}
This is a convenience that creates an instance of the `ElasticsearchDomainConfig.Builder` avoiding
the need to create one manually via `ElasticsearchDomainConfig.builder()`.

When the `Consumer` completes, `ElasticsearchDomainConfig.Builder.build()` is called immediately and its result is
passed to `domainConfig(ElasticsearchDomainConfig)`. On return, the updated Elasticsearch domain is passed to
the consumer that will call methods on `domainConfig(ElasticsearchDomainConfig)`. On return, the updated Elasticsearch domain can be chained together.

```
@see domainConfig(ElasticsearchDomainConfig)
```

```
@link ElasticsearchDomainConfig.Builder
```

```
/**
 * The status of the updated Elasticsearch domain.
 */

```

```
@link ElasticsearchDomainConfig.Builder
```

```
/**
 * The status of the updated Elasticsearch domain.
 */

```

```
@link ElasticsearchDomainConfig.Builder
```

```
/**
 * The status of the updated Elasticsearch domain.
 */

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@link ElasticsearchDomainConfig.Builder
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/**
 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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@link ElasticsearchDomainConfig.Builder
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 * The status of the updated Elasticsearch domain.
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```
@link ElasticsearchDomainConfig.Builder
```

```
/**
 * The status of the updated Elasticsearch domain.
 */

```

```
@link ElasticsearchDomainConfig.Builder
```

```
/**
 * The status of the updated Elasticsearch domain.
 */

```
"marshallingType" : "SDK_POJO",
"name" : "DomainConfig",
"sensitive" : false,
"setterDocumentation" : "<p>The status of the updated Elasticsearch domain. </p>
@param domainConfig
The status of the updated Elasticsearch domain."
"setterMethodName" : "setDomainConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainConfig",
  "variableName" : "domainConfig",
  "variableType" : "ElasticsearchDomainConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainConfig",
  "variableSetterType" : "ElasticsearchDomainConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainConfig",
  "variableName" : "domainConfig",
  "variableType" : "ElasticsearchDomainConfig",
  "documentation" : "<p>The status of the updated Elasticsearch domain. </p>",
  "simpleType" : "ElasticsearchDomainConfig",
  "variableSetterType" : "ElasticsearchDomainConfig"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : [ "DomainConfig" ],
"shapeName" : "UpdateElasticsearchDomainConfigResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "UpdateElasticsearchDomainConfigResponse",
  "variableName" : "updateElasticsearchDomainConfigResponse",
  "variableType" : "UpdateElasticsearchDomainConfigResponse",
  "documentation" : null,
  "simpleType" : "UpdateElasticsearchDomainConfigResponse",
  "variableSetterType" : "UpdateElasticsearchDomainConfigResponse"
},
"wrapper" : false
},
"UpgradeElasticsearchDomainRequest" : {
  "c2jName" : "UpgradeElasticsearchDomainRequest",
  "customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> Container for request parameters to <code> <a>UpgradeElasticsearchDomain</a> </code> operation. </p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
  "action" : "UpgradeElasticsearchDomain",
  "locationName" : null,
  "requestUri" : "/2015-01-01/es/upgradeDomain",
  "target" : null,
  "verb" : "POST",
  "xmlNameSpaceUri" : null
},
"members" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}.\n\n@link #domainName(String)\n@see #domainName(String),
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterMethodName" : "domainName",
"fluentUnmarshallFrom" : null,
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.

@param domainName The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.

@return The value of the DomainName property for this object."
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the DomainName property for this object.

@param domainName The new value for the DomainName property for this object.

@return Returns a reference to this object so that method calls can be chained together.

In this case, the `DomainName` property is used.

"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"beanStyleGetterMethodName": "getTargetVersion",
"beanStyleSetterMethodName": "setTargetVersion",
"c2jName": "TargetVersion",
"c2jShape": "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation": "\n\n<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #targetVersion(String)\}.\n\n@param targetVersion a consumer that will call methods on \{@link String.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #targetVersion(String)",
"deprecated": false,
"documentation": "\n\n<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "targetVersion",
"fluentSetterDocumentation": "\n\n<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
\n@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.
\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "targetVersion",
"getterDocumentation": "\n\n<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>\n\n@see #targetVersion(String)",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
The version of Elasticsearch that you intend to upgrade the domain to.

@see getTargetVersion
@see setTargetVersion

**setterDocumentation**: 
<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
When the @link Consumer completes, @link Boolean.Builder#build() is called immediately and its result is passed to @link #performCheckOnly(Boolean). @param performCheckOnly a consumer that will call methods on @link Boolean.Builder

@returns Returns a reference to this object so that method calls can be chained together.

@see #performCheckOnly(Boolean)
This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. `<p>`

@method: Performs an Upgrade Eligibility Check. This will not actually perform the Upgrade.

@setting: `performCheckOnly`
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
@nestjs\@param domainName The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.
@return The value of the DomainName property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the DomainName property for this object.
@nestjs\@param domainName The new value for the DomainName property for this object.
@returns A reference to this object so that method calls can be chained together",
"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String"}
"variableSetterType" : "String",
},"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
},
"PerformCheckOnly" : {
  "beanStyleGetterMethodName" : "getPerformCheckOnly",
  "beanStyleSetterMethodName" : "setPerformCheckOnly",
  "c2jName" : "PerformCheckOnly",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>\nThis is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean#builder()}.\nWhen the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #performCheckOnly(Boolean)}.\n@param performCheckOnly a consumer that will call methods on { @link Boolean.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #performCheckOnly(Boolean)",
  "deprecated" : false,
  "documentation" : "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "performCheckOnly",
  "fluentSetterDocumentation" : "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>\n@returns Returns a reference to this object so that method calls can be chained together.
",
  "fluentSetterMethodName" : "performCheckOnly",
  "getterDocumentation" : "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>\n@returns Returns a reference to this object so that method calls can be chained together.
",
  "getterModel" : {
    "returnType" : "Boolean",
    "documentation" : null
  },}
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "PerformCheckOnly",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "PerformCheckOnly",
   "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "PerformCheckOnly",
"sensitive" : false,
"setterDocumentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.\n\n@\param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.".
"setterMethodName" : "setPerformCheckOnly",
"setterModel" : {
   "variableDeclarationType" : "Boolean",
   "variableName" : "performCheckOnly",
   "variableType" : "Boolean",
   "documentation" : null,
   "simpleType" : "Boolean",
   "variableSetterType" : "Boolean"
 },
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "Boolean",
   "variableName" : "performCheckOnly",
   "variableType" : "Boolean",
   "documentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.\n\n@\param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.\n\n"simpleType" : "Boolean",
"variableSetterType" : "Boolean",
"xmlNamespaceUri" : null
},
"TargetVersion" : {
"beanStyleGetterMethodName" : "getTargetVersion",
"beanStyleSetterMethodName" : "setTargetVersion",
"c2jName" : "TargetVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The version of Elasticsearch that you intend to upgrade the domain to.&lt;/p&gt;&lt;p&gt;This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.&lt;br&gt;When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #targetVersion(String)}.&lt;br&gt;@param targetVersion a consumer that will call methods on { @link String.Builder} @return Returns a reference to this object so that method calls can be chained together.&lt;br&gt;@see #targetVersion(String)",
"deprecated" : false,
"documentation" : "&lt;p&gt;The version of Elasticsearch that you intend to upgrade the domain to.&lt;/p&gt;",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "targetVersion",
"fluentSetterDocumentation" : "&lt;p&gt;The version of Elasticsearch that you intend to upgrade the domain to.&lt;/p&gt;&lt;p&gt;The version of Elasticsearch that you intend to upgrade the domain to.&lt;/p&gt;&lt;param&gt;targetVersion The version of Elasticsearch that you intend to upgrade the domain to.&lt;/param&gt;@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "targetVersion",
"getterDocumentation" : "&lt;p&gt;The version of Elasticsearch that you intend to upgrade the domain to.&lt;/p&gt;@return The version of Elasticsearch that you intend to upgrade the domain to.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersion"}
"uri": false,
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "TargetVersion",
"sensitive": false,
"setterDocumentation": "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.",
"setterMethodName": "setTargetVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "targetVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "targetVersion",
  "variableType": "String",
  "documentation": "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"nonStreamingMembers": [ {
  "beanStyleGetterMethodName": "getDomainName",
  "beanStyleSetterMethodName": "setDomainName",
  "c2jName": "DomainName",
  "c2jShape": "DomainName",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the DomainName property for this object.\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}. When the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #domainName(String)}.\n@param domainName a consumer that will call methods on \n{@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #domainName(String)",
  "deprecated": false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\n\n@param

domainName The new value for the DomainName property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.\n\n@return The value of the DomainName property for this object."
getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the DomainName property for this object.\n\n@param

domainName The new value for the DomainName property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"
"beanStyleGetterMethodName" : "getTargetVersion",
"beanStyleSetterMethodName" : "setTargetVersion",
"c2jName" : "TargetVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : ":<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}.
When the {@link Consumer} completes, it is called immediately and its result is passed to

@link ElasticsearchVersionString a consumer that will call methods on {\link String.Builder}.

@returns Returns a reference to this object so that method calls can be chained together.
\see #targetVersion(String)",
  "deprecated" : false,
  "documentation" : "The version of Elasticsearch that you intend to upgrade the domain to.",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "targetVersion",
  "fluentSetterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.
\returns Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "targetVersion",
  "getterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.
\returns The version of Elasticsearch that you intend to upgrade the domain to.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "TargetVersion",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "TargetVersion",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "TargetVersion",
"敏感": false,
"setterDocumentation": "<p>The version of Elasticsearch that you intend to upgrade the domain
to.<p>@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.","setterMethodName": "setTargetVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "targetVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "targetVersion",
  "variableType": "String",
  "documentation": "<p>The version of Elasticsearch that you intend to upgrade the domain to.<p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
"documentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. 

"getterDocumentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "PerformCheckOnly",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "PerformCheckOnly",
"defaultConsumerFluentSetterDocumentation" : "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. 

This is a convenience that creates an instance of the [@link Boolean.Builder] avoiding the need to create one manually via [@link Boolean#builder()].

When the [@link Consumer] completes, [@link Boolean.Builder#build()] is called immediately and its result is passed to [@link performCheckOnly(Boolean)] a consumer that will call methods on [@link Boolean.Builder].

@return Returns a reference to this object so that method calls can be chained together.
@see #performCheckOnly(Boolean)"
}
"uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "PerformCheckOnly",
"isSensitive" : false,
"setterDocumentation" : "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. <br/>
@param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.
</p>",
"setterMethodName" : "setPerformCheckOnly",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "performCheckOnly",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "performCheckOnly",
  "variableType" : "Boolean",
  "documentation" : "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. <br/>
</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
}
],
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : [ "DomainName", "TargetVersion" ],
"shapeName" : "UpgradeElasticsearchDomainRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "UpgradeElasticsearchDomainRequest",
  "variableName" : "upgradeElasticsearchDomainRequest",
  "variableType" : "UpgradeElasticsearchDomainRequest",
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
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    "variableName" : "upgradeElasticsearchDomainRequest",
    "variableType" : "UpgradeElasticsearchDomainRequest",
    "simple" : true,
    "timestampFormat" : null,
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      "variableDeclarationType" : "UpgradeElasticsearchDomainRequest",
      "variableName" : "upgradeElasticsearchDomainRequest",
      "variableType" : "UpgradeElasticsearchDomainRequest",
      "simple" : true,
      "timestampFormat" : null
    }},
  "xmlNameSpaceUri" : null
}
];
"documentation" : null,
"simpleType" : "UpgradeElasticsearchDomainRequest",
"variableSetterType" : "UpgradeElasticsearchDomainRequest"
},
"wrapper" : false
},
"UpgradeElasticsearchDomainResponse" : {
"c2jName" : "UpgradeElasticsearchDomainResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaler" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> Container for response returned by <code> <a>UpgradeElasticsearchDomain</a> </code> operation. </p>
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshaller" : null,
"members" : [
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultValueFluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #domainName(String)].\n\n@see #domainName(String)"
]
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
@param domainName The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.
@return The value of the DomainName property for this object."

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the DomainName property for this object.
@param domainName The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together."

"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
The version of Elasticsearch that you intend to upgrade the domain to.\n\nThis is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create one manually via \{ @link String#builder() \}.\n\nWhen the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #targetVersion(String) \}.\n\n@param targetVersion a consumer that will call methods on \{ @link String.Builder \}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #targetVersion(String)\n\ndeprecated"},
"documentation": "\n\n\nendpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "targetVersion",
"fluentSetterMethodName": "targetVersion",
"fluentSetterDocumentation": "\n\nThe version of Elasticsearch that you intend to upgrade the domain to.\n\nWhen the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #targetVersion(String) \}.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #targetVersion(String)\n\ngetterMethod": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersion",
"uri" : false
}

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "TargetVersion",
"sensitive" : false,
"setterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to."

"setterMethodName" : "setTargetVersion",
"setterModel" : {

"variableDeclarationType" : "String",
"variableName" : "targetVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
}

"simple" : true,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "String",
"variableName" : "targetVersion",
"variableType" : "String",
"documentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
}

"xmlNameSpaceUri" : null
}

"beanStyleGetterMethodName" : "getPerformCheckOnly",
"beanStyleSetterMethodName" : "setPerformCheckOnly",
"c2jName" : "PerformCheckOnly",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>This flag, when set to True, indicates that an Upgrade
Eligibility Check needs to be performed. This will not actually perform the Upgrade. This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean.Builder#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #performCheckOnly(Boolean)}. Returns a reference to this object so that method calls can be chained together.

This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

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This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "PerformCheckOnly",
"sensitive": false,
"setterDocumentation": "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>
@param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.",
"setterMethodName": "setPerformCheckOnly",
"setterModel": {
  "variableDeclaratiонType": "Boolean",
  "variableName": "performCheckOnly",
  "variableType": "Boolean",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "performCheckOnly",
  "variableType": "Boolean",
  "documentation": "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.",
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
},
"membersAsMap": {
  "DomainName": {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the DomainName property for this object.
This is a convenience that creates an instance of the [ @link String.Builder ] avoiding the need to create one manually via [ @link String#builder() ]. When the [ @link Consumer ] completes, [ @link String.Builder#build() ] is called immediately and its result is passed to [ @link #domainName(String) ].
@param domainName a consumer that will call methods on [ @link String.Builder ]
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)"
  },
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
  "enumType": null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
@returns null
@param domainName The new value for the DomainName property for this object.
@returns Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "Returns the value of the DomainName property for this object.
@returns The value of the DomainName property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the DomainName property for this object.
@returns null
@param domainName The new value for the DomainName property for this object.",
"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
}
This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. This is a convenience that creates an instance of the [Boolean.Builder] avoiding the need to create one manually via [Boolean#builder()]. When the [Consumer] completes, [Boolean.Builder#build()] is called immediately and its result is passed to [performCheckOnly(Boolean)]. @param performCheckOnly a consumer that will call methods on [Boolean.Builder] @return Returns a reference to this object so that method calls can be chained together. @see #performCheckOnly(Boolean)

This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

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@param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.,
This will not actually perform the Upgrade.

```
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"TargetVersion" : {
"beanStyleGetterMethodName" : "getTargetVersion",
"beanStyleSetterMethodName" : "setTargetVersion",
"c2jName" : "TargetVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.

This is a convenience that creates an instance of the {\@link String.Builder} avoiding the need to create one manually via {\@link String#builder()}. When the {\@link Consumer} completes, {\@link String.Builder#build()} is called immediately and its result is passed to {\@link #targetVersion(String)}.\n
@return Returns a reference to this object so that method calls can be chained together.\n
@see #targetVersion(String)"
,"deprecated" : false,
"documentation" : "The version of Elasticsearch that you intend to upgrade the domain to.

endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "targetVersion",
"fluentSetterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.

@return Returns a reference to this object so that method calls can be chained together.\n
@see #targetVersion(String)"
,"getterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.

"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersion",
"queryString" : false,
"varName" : null,
"variableName" : null
}
```
The version of Elasticsearch that you intend to upgrade the domain to.

```java
@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.

```

```java
@method setTargetVersion

```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.Builder().` When the `String.Builder#build()` completes, the `String.Builder#build()` is called immediately and its result is passed to `String#builder()`.

@method return Returns a reference to this
object so that method calls can be chained together.

@see #domainName(String)

Sets the value of the DomainName property for this object.

@param domainName The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together.

```
fluentSetterMethodName() : "domainName",
getterDocumentation() : "Sets the value of the DomainName property for this object.

@param domainName The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together.

```

```
getterModel() : {
  "returnType" : "String",
  "documentation" : null
},
```

```
http() : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : false
},
idempotencyToken() : false,
isBinary() : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the DomainName property for this object.

@param domainName The new value for the DomainName property for this object.

```

The new value for the DomainName property for this object.
```
"setterMethodName": "setDomainName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

{ "beanStyleGetterMethodName": "getTargetVersion",
  "beanStyleSetterMethodName": "setTargetVersion",
  "c2jName": "TargetVersion",
  "c2jShape": "ElasticsearchVersionString",
  "defaultConsumerFluentSetterDocumentation": "\n<p>The version of Elasticsearch that you intend to upgrade the domain to.\n
This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}\n
When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link TargetVersion(String)\}\n
@see #targetVersion(String)"

  "deprecated": false,
  "documentation": "\n<p>The version of Elasticsearch that you intend to upgrade the domain to.\n
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "targetVersion",
  "fluentSetterDocumentation": "\n<p>The version of Elasticsearch that you intend to upgrade the domain to.\n
@see #targetVersion(String)"

  "fluentSetterMethodName": "targetVersion",
  "getterDocumentation": "\n<p>The version of Elasticsearch that you intend to upgrade the domain to.\n
  "getterModel": {
    "returnType": "String",
  }

  "xmlNameSpaceUri": null
}
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "TargetVersion",
"simple" : true,
"simpleType" : "String",
"setterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.",
"setterMethodName" : "setTargetVersion",
"setterModel" : {
"simpleType" : "String",
"variableDeclarationType" : "String",
"variableName" : "targetVersion",
"variableType" : "String",
"documentation" : null,
"setterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.",
"setterMethodName" : "setTargetVersion",
"setterModel" : {
"simpleType" : "String",
"variableDeclarationType" : "String",
"variableName" : "targetVersion",
"variableType" : "String",
"documentation" : null,
"setterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to."}
This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean#builder()}. When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #performCheckOnly(Boolean)}. A consumer that will call methods on { @link Boolean.Builder} return Returns a reference to this object so that method calls can be chained together. see #performCheckOnly(Boolean)

This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.
"statusCode" : false,
"unmarshallLocationName" : "PerformCheckOnly",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "PerformCheckOnly",
"sensitive" : false,
"setterDocumentation" : "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p><p>@param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. 

"setterMethodName" : "setPerformCheckOnly",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "performCheckOnly",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "performCheckOnly",
  "variableType" : "Boolean",
  "documentation" : "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
}].
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "UpgradeElasticsearchDomainResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : false,
"variable" : {  
  "variableDeclarationType" : "UpgradeElasticsearchDomainResponse",
  "variableName" : "upgradeElasticsearchDomainResponse",
  "variableType" : "UpgradeElasticsearchDomainResponse",
  "documentation" : null,
  "simpleType" : "UpgradeElasticsearchDomainResponse",
  "variableSetterType" : "UpgradeElasticsearchDomainResponse"
},

"wrapper" : false
},

"UpgradeHistory" : {
  "c2jName" : "UpgradeHistory",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "History of the last 10 Upgrades and Upgrade Eligibility Checks.",
  "endpointDiscovery" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [
    { "beanStyleGetterMethodName" : "getUpgradeName",
      "beanStyleSetterMethodName" : "setUpgradeName",
      "c2jName" : "UpgradeName",
      "c2jShape" : "UpgradeName",
      "defaultConsumerFluentSetterDocumentation" : "A string that describes the update briefly"
    }
  ],
  "deprecated" : false,
  "documentation" : "A string that describes the update briefly",
  "endpointDiscoveryId" : false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "upgradeName",
"fluentSetterDocumentation": "<p>A string that describes the update briefly</p>
@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "upgradeName",
"getterDocumentation": "<p>A string that describes the update briefly</p>
@returns A string that describes the update briefly",
"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "UpgradeName",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "UpgradeName",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "UpgradeName",
"sensitive": false,
"setterDocumentation": "<p>A string that describes the update briefly</p>
@returns A string that describes the update briefly",
"setterMethodName": "setUpgradeName",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "upgradeName",}
"setterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>
@param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.",
"setterMethodName" : "setStartTimestamp",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTimestamp",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTimestamp",
  "variableType" : "java.time.Instant",
  "documentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>"}
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpgradeStatusAsString",
"beanStyleSetterMethodName" : "setUpgradeStatus",
"c2jName" : "UpgradeStatus",
"c2jShape" : "UpgradeStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #upgradeStatusAsString(String)}.
</p>
@link String.Builder}@return Returns a reference to this object so that method calls can be chained together:
@link UpgradeStatus(String)",
"deprecated" : false,
"documentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded withIssues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeStatus",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStatus",
"setterDocumentation" : "<p> The overall status of the update. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
@param upgradeStatus The overall status of the update. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
@see UpgradeStatus",
"setterMethodName" : "setUpgradeStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"xmlNameSpaceUri" : null
"defaultConsumerFluentSetterDocumentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. This is a convenience that creates an instance of the {@link List&lt;UpgradeStepItem&gt;}.Builder avoiding the need to create one manually via {@link List&lt;UpgradeStepItem&gt;#builder()}. When the {@link Consumer} completes, {@link List&lt;UpgradeStepItem&gt;#build()} is called immediately and its result is passed to {@link List&lt;UpgradeStepItem&gt;}.

When the {@link Consumer} completes, {@link List&lt;UpgradeStepItem&gt;#build()} is called immediately and its result is passed to {@link List&lt;UpgradeStepItem&gt;}).

@see #stepsList(List&lt;UpgradeStepItem&gt;)",

deprecated": false,
"documentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "stepsList",
"fluentSetterDocumentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@param stepsList A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

@return Returns a reference to this object so that method calls can be chained together.

@see #stepsList(List&lt;UpgradeStepItem&gt;)",

deprecated": false,
"documentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
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"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "stepsList",
"fluentSetterDocumentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@param stepsList A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

@return Returns a reference to this object so that method calls can be chained together.

@see #stepsList(List&lt;UpgradeStepItem&gt;)",

deprecated": false,
"documentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "stepsList",
"fluentSetterDocumentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@param stepsList A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

@return Returns a reference to this object so that method calls can be chained together.

@see #stepsList(List&lt;UpgradeStepItem&gt;)",

deprecated": false,
"documentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

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"enumType": null,
"eventHeader": false,
"eventPayload": false,
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"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "stepsList",
"fluentSetterDocumentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@param stepsList A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

@return Returns a reference to this object so that method calls can be chained together.

@see #stepsList(List&lt;UpgradeStepItem&gt;)",

deprecated": false,
"documentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@endpointDiscoveryId": false,
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"eventHeader": false,
"eventPayload": false,
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"fluentGetterMethodName": "stepsList",
"fluentSetterDocumentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@param stepsList A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

@return Returns a reference to this object so that method calls can be chained together.

@see #stepsList(List&lt;UpgradeStepItem&gt;)",

deprecated": false,
"documentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "stepsList",
"fluentSetterDocumentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@param stepsList A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

@return Returns a reference to this object so that method calls can be chained together.

@see #stepsList(List&lt;UpgradeStepItem&gt;)",

deprecated": false,
"documentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

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"eventHeader": false,
"eventPayload": false,
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"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "stepsList",
"fluentSetterDocumentation": "<p>A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>

@param stepsList A list of <code>&lt;a&gt;UpgradeStepItem&lt;/a&gt;</code> representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

@return Returns a reference to this object so that method calls can be chained together.

@see #stepsList(List&lt;UpgradeStepItem&gt;)",

deprecated": false,
"marshallLocationName": "StepsList",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "StepsList",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "UpgradeStepItem",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [UpgradeStepItem.Builder] avoiding the need to create one manually via [UpgradeStepItem#builder()].\nWhen the [Consumer] completes, [UpgradeStepItem.Builder#build()] is called immediately and its result is passed to [UpgradeStepItem.Builder] with a consumer that will call methods on [UpgradeStepItem.Builder].\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #member(UpgradeStepItem)",
  "deprecated": false,
  "documentation": "",
  "endpointDiscoveryId": false,
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "member",
  "fluentSetterDocumentation": "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@returns Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName": "member",
  "getterDocumentation": "Returns the value of the Member property for this object.\n@returns The value of the Member property for this object."
  "getterModel": {
    "returnType": "UpgradeStepItem",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
}

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "UpgradeStepItem",
  "variableName" : "member",
  "variableType" : "UpgradeStepItem",
  "documentation" : null,
  "simpleType" : "UpgradeStepItem",
  "variableSetterType" : "UpgradeStepItem"
}

"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "UpgradeStepItem",
  "variableName" : "member",
  "variableType" : "UpgradeStepItem",
  "documentation" : "",
  "simpleType" : "UpgradeStepItem",
  "variableSetterType" : "UpgradeStepItem"
}

"xmlnsNameSpaceUri" : null
},

"memberLocationName" : null,
"memberType" : "UpgradeStepItem",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "UpgradeStepItem",
"templateImplType" : "java.util.ArrayList<UpgradeStepItem>",
"templateType" : "java.util.List<UpgradeStepItem>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StepsList",
"sensitive" : false,
"setterDocumentation" : "<p>A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.</p>
@param stepsList A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.",
"setterMethodname" : "setStepsList",
"setterModel" : {
"variableDeclarationType" : "java.util.List<UpgradeStepItem>",
"variableName" : "stepsList",
"variableType" : "java.util.List<UpgradeStepItem>",
"documentation" : null,
"simpleType" : "List<UpgradeStepItem>",
"variableSetterType" : "java.util.Collection<UpgradeStepItem>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<UpgradeStepItem>",
"variableName" : "stepsList",
"variableType" : "java.util.List<UpgradeStepItem>",
"documentation" : "<p>A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.</p>",
"simpleType" : "List<UpgradeStepItem>",
"variableSetterType" : "java.util.Collection<UpgradeStepItem>"
},
"xmlnsNameSpaceUri" : null
}],
"membersAsMap" : {
"StartTimestamp" : {
"beanStyleGetterMethodName" : "getStartTimestamp",
"beanStyleSetterMethodName" : "setStartTimestamp",
"c2jName" : "StartTimestamp",
"c2jShape" : "StartTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p><p>This is a convenience that creates an instance of the { @link Instant.Builder} avoiding the need to create one manually via { @link Instant#builder()}.\n\nWhen the { @link Consumer} completes, { @link Instant.Builder#build()} is called immediately and its result is passed to { @link

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**Open Source Used In SDWan 20.6.1 25358**
### Documentation

**StartTimestamp(Instant)**:

- **@param startTimestamp**: a consumer that will call methods on `@link Instant.Builder`.
- **@return**: Returns a reference to this object so that method calls can be chained together.
- **@see**: `#StartTimestamp(Instant)`.

**deprecated**: false,

**documentation**: `<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>`,

**endpointDiscoveryId**: false,

**enumType**: null,

**eventHeader**: false,

**eventPayload**: false,

**fluentEnumGetterMethodName**: null,

**fluentEnumSetterMethodName**: null,

**fluentGetterMethodName**: "startTimestamp",

**fluentSetterDocumentation**: '<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>

@return UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.

@returns Returns a reference to this object so that method calls can be chained together.',

**fluentSetterMethodName**: "startTimestamp",

**getterDocumentation**: '<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>

@return UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.

@returns Returns a reference to this object so that method calls can be chained together.',

**getterModel**: {
  "returnType": "java.time.Instant",
  "documentation": null
},

**http**: {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "StartTimestamp",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "StartTimestamp",
  "uri": false
},

**idempotencyToken**: false,

**isBinary**: false,

**jsonValue**: false,

**list**: false,

**listModel**: null,

**map**: false,

**mapModel**: null,
"marshallingType" : "INSTANT",
"name" : "StartTimestamp",
"sensitive" : false,
"setterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>
@param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.",
"setterMethodName" : "setStartTimestamp",
"setterModel" : {
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  "variableName" : "startTimestamp",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
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"simple" : true,
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"variable" : {
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  "variableName" : "startTimestamp",
  "variableType" : "java.time.Instant",
  "documentation" : "UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.",
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"StepsList" : {
  "beanStyleGetterMethodName" : "getStepsList",
  "beanStyleSetterMethodName" : "setStepsList",
  "c2jName" : "StepsList",
  "c2jShape" : "UpgradeStepsList",
  "defaultConsumerFluentSetterDocumentation" : "A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.
This is a convenience that creates an instance of the [ upheldItem.Builder] avoiding the need to create one manually via [ upheldItem.Builder#builder()].
When the [ handyConsumer] completes, [ upheldItem.Builder#build()] is called immediately and its result is passed to [ upheldList(List<UpgradedItem>).]
@param stepsList a consumer that will call methods on [ upheldList<UpgradedItem>.Builder]
@returns Returns a reference to this object so that method calls can be chained together.
@see #stepsList(List<UpgradedItem>)",
  "deprecated" : false,
  "documentation" : "A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.
</p>"},
"endpointDiscoveryId" : false,
"enumType" : null,
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"eventPayload" : false,
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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "stepsList",
"fluentSetterDocumentation" : "A list of UpgradeStepItem s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. A list of UpgradeStepItem s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.
@param stepsList A list of UpgradeStepItem s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "stepsList",
"getterDocumentation" : "A list of UpgradeStepItem s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
@return A list of UpgradeStepItem s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.",
"getterModel" : {
  "returnType" : "java.util.List<UpgradeStepItem>",
  "documentation" : null
},
"http" : {
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  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StepsList",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StepsList",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "UpgradeStepItem",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [ @link UpgradeStepItem.Builder] avoiding the need
to create one manually via [@link UpgradeStepItem#builder()].
When the [@link Consumer] completes, [@link UpgradeStepItem.Builder#build()] is called immediately and its result is passed to [@link #member(UpgradeStepItem)].

@see #member(UpgradeStepItem)

@return Returns a reference to this object so that method calls can be chained together.

The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

 Sets the value of the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

Returns the value of the Member property for this object.

@return The value of the Member property for this object.
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
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   "variableName" : "member",
   "variableType" : "UpgradeStepItem",
   "documentation" : null,
   "simpleType" : "UpgradeStepItem",
   "variableSetterType" : "UpgradeStepItem"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
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   "variableName" : "member",
   "variableType" : "UpgradeStepItem",
   "documentation" : "",
   "simpleType" : "UpgradeStepItem",
   "variableSetterType" : "UpgradeStepItem"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "UpgradeStepItem",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "UpgradeStepItem",
"templateImplType" : "java.util.ArrayList<UpgradeStepItem>",
"templateType" : "java.util.List<UpgradeStepItem>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StepsList",
"sensitive" : false,
"setterDocumentation" : "<p> A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>\n\n@param stepsList A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.\n",
"setterMethodName" : "setStepsList",
"setterModel" : {
   "variableDeclarationType" : "java.util.List<UpgradeStepItem>",
   "variableName" : "stepsList",
}
"variableType" : "java.util.List<UpgradeStepItem>",
"documentation" : null,
"simpleType" : "List<UpgradeStepItem>",
"variableSetterType" : "java.util.Collection<UpgradeStepItem>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<UpgradeStepItem>",
  "variableName" : "stepsList",
  "variableType" : "java.util.List<UpgradeStepItem>",
  "documentation" : "<p> A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>",
  "simpleType" : "List<UpgradeStepItem>",
  "variableSetterType" : "java.util.Collection<UpgradeStepItem>"
},
"xmlNameSpaceUri" : null,
"UpgradeName" : {
  "beanStyleGetterMethodName" : "getUpgradeName",
  "beanStyleSetterMethodName" : "setUpgradeName",
  "c2jName" : "UpgradeName",
  "c2jShape" : "UpgradeName",
  "defaultConsumerFluentSetterDocumentation" : "<p>A string that describes the update briefly</p>\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #upgradeName(String)} a consumer that will call methods on {@link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #upgradeName(String)",
  "deprecated" : false,
  "documentation" : "<p>A string that describes the update briefly</p>\n"endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "upgradeName",
  "fluentSetterDocumentation" : "A string that describes the update briefly A string that describes the update briefly\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "upgradeName",
  "getterDocumentation" : "A string that describes the update briefly\n@return A string that describes the update briefly",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  }
}
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
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    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "UpgradeName",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "UpgradeName",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeName",
"sensitive" : false,
"setterDocumentation" : "<p>A string that describes the update briefly</p>\n@param upgradeName A string that describes the update briefly",
"setterMethodName" : "setUpgradeName",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "upgradeName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "upgradeName",
    "variableType" : "String",
    "documentation" : "<p>A string that describes the update briefly</p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
"UpgradeStatus" : {
  "beanStyleGetterMethodName" : "getUpgradeStatusAsString",
  "beanStyleSetterMethodName" : "setUpgradeStatus",
  "c2jName" : "UpgradeStatus",
  "c2jShape" : "UpgradeStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #upgradeStatusAsString(String)}.<br>
@param upgradeStatus a consumer that will call methods on {@link String.Builder}<br>
@return Returns a reference to this object so that method calls can be chained together.<br>
@see #upgradeStatus(String)"",
  "deprecated" : false,
  "documentation" : "<p>The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul></p>
@end
@deprecated Returns a reference to this object so that method calls can be chained together.<br>
@see UpgradeStatus(String)",
  "endpointDiscoveryId" : false,
  "enumType" : "UpgradeStatus",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "upgradeStatus",
  "fluentEnumSetterMethodName" : "upgradeStatus",
  "fluentGetterMethodName" : "upgradeStatusAsString",
  "fluentSetterDocumentation" : "<p>The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul></p>
@see UpgradeStatus<br>
@return Returns a reference to this object so that method calls can be chained together.<br>
@see UpgradeStatus",
  "fluentSetterMethodName" : "upgradeStatus",
  "getterDocumentation" : "<p>The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul></p>
@end<br>
If the service returns an enum value that is not available in the current SDK version, {@link #upgradeStatus} will return {@link UpgradeStatus#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #upgradeStatusAsString}.<br>
@see #upgradeStatus(String)
@see UpgradeStatus
@return Returns a reference to this object so that method calls can be chained together.<br>
@see UpgradeStatus",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeStatus",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStatus",
"sensitive" : false,
"setterDocumentation" : "<p> The overall status of the update. The status can take one of the following values:
<ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
@see UpgradeStatus",
"setterMethodName" : "setUpgradeStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"nonStreamingMembers" : [ {
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via {@link String#builder()}. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #upgradeName(String)].

@return Returns a reference to this object so that method calls can be chained together.

@see #upgradeName(String)
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "UpgradeName",
"sensitive": false,
"setterDocumentation": "<p>A string that describes the update briefly</p>
@param upgradeName A string that describes the update briefly",
"setterMethodName": "setUpgradeName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "upgradeName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "upgradeName",
  "variableType": "String",
  "documentation": "<p>A string that describes the update briefly</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getStartTimestamp",
"beanStyleSetterMethodName": "setStartTimestamp",
"c2jName": "StartTimestamp",
"c2jShape": "StartTimestamp",
"defaultConsumerFluentSetterDocumentation": "<p>UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.</p>
This is a convenience that creates an instance of the [Instant.Builder] avoiding the need to create one manually via [Instant#builder()].

When the [Consumer] completes, [Instant.Builder#build()] is called immediately and its result is passed to [Instant#startTimestamp(Instant)].

@param startTimestamp a consumer that will call methods on [Instant.Builder]
@return Returns a reference to this object so that method calls can be chained together.

@see #startTimestamp(Instant)",
"deprecated": false,
"documentation": "<p>UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "startTimestamp",
"fluentSetterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "startTimestamp",
"getterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.\n@return UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.",
"getterModel" : {
"returnType" : "java.time.Instant",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "StartTimestamp",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StartTimestamp",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "StartTimestamp",
"sensitive" : false,
"setterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.\n@return UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.",
"setterMethodName" : "setStartTimestamp",
"setterModel" : {
"variableDeclarationType" : "java.time.Instant",
"variableName" : "startTimestamp"
"variableType" : "java.time.Instant",
"documentation" : null,
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTimestamp",
  "variableType" : "java.time.Instant",
  "documentation" : "<p>UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.</p>",
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpgradeStatusAsString",
"beanStyleSetterMethodName" : "setUpgradeStatus",
"c2jName" : "UpgradeStatus",
"c2jShape" : "UpgradeStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, the result is passed to the method on the consumer that will call methods on the consumer that will return a reference to this object so that method calls can be chained together.
</p>
@see #upgradeStatus(String)",
"deprecated" : false,
"documentation" : "The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>
@see UpgradeStatus",
"endpointDiscoveryId" : false,
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>
@see UpgradeStatus
@return Returns a reference to this object so that method calls can be chained together.
@see UpgradeStatus",
"fluentSetterMethodName" : "upgradeStatus",
"getterDocumentation" : "The overall status of the update. The status can take one of the following values:

If the service returns an enum value that is not available in the current SDK version, `<code>{@link #upgradeStatus}</code>` will return `<code>{@link UpgradeStatus#UNKNOWN_TO_SDK_VERSION}</code>`. The raw value returned by the service is available from `<code>{@link #upgradeStatusAsString}</code>.

@return The overall status of the update. The status can take one of the following values: 

- In Progress
- Succeeded
- Succeeded with Issues
- Failed

@see UpgradeStatus

```json
{ "getterModel": { "returnType": "String", "documentation": null }, "http": { "additionalMarshallingPath": null, "additionalUnmarshallingPath": null, "flattened": false, "greedy": false, "header": false, "isPayload": false, "isStreaming": false, "location": null, "marshallLocation": "PAYLOAD", "marshallLocationName": "UpgradeStatus", "queryString": false, "statusCode": false, "unmarshallLocationName": "UpgradeStatus", "uri": false }, "idempotencyToken": false, "isBinary": false, "jsonValue": false, "list": false, "listModel": null, "map": false, "mapModel": null, "marshallingType": "STRING", "name": "UpgradeStatus", "sensitive": false, "setterDocumentation": "The overall status of the update. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed. @see UpgradeStatus", "setterMethodName": "setUpgradeStatus", "setterModel": { "variableDeclarationType": "String", "variableName": "upgradeStatus", "variableType": "String", "documentation": null, "simpleType": "String", "variableSetterType": "String" }}
```
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "upgradeStatus",
  "variableType": "String",
  "documentation": "The overall status of the update. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed."
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getStepsList",
"beanStyleSetterMethodName": "setStepsList",
"c2jName": "StepsList",
"c2jShape": "UpgradeStepsList",
"defaultConsumerFluentSetterDocumentation": "A list of UpgradeStepItem representations of information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. This is a convenience that creates an instance of the List&lt;UpgradeStepItem&gt; avoiding the need to create one manually via List&lt;UpgradeStepItem&gt;.Builder(). When the Consumer is completed, List&lt;UpgradeStepItem&gt;.Builder#build() is called immediately and its result is passed to List&lt;UpgradeStepItem&gt;#stepsList().

When the Consumer is completed, List&lt;UpgradeStepItem&gt;.Builder#build() is called immediately and its result is passed to List&lt;UpgradeStepItem&gt;#stepsList().

AndPassword returns a reference to this object so that method calls can be chained together.

@see #stepsList(List&lt;UpgradeStepItem&gt;)
"}
"deprecated": false,
"documentation": "A list of UpgradeStepItem representations of information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check."
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "stepsList",
"fluentSetterDocumentation": "A list of UpgradeStepItem representations of information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

@param stepsList A list of UpgradeStepItem representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.
@return Returns a reference to this object so that method calls can be chained together",
"fluentSetterMethodName": "stepsList",
"getterDocumentation": "A list of UpgradeStepItem representations of information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return A list of UpgradeStepItem representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.
"}
"getterModel": {
"returnType" : "java.util.List<UpgradeStepItem>",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StepsList",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StepsList",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"ListModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "UpgradeStepItem",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object.
This is a convenience that creates an instance of the
{@link UpgradeStepItem.Builder} avoiding the need to create one manually via
{@link UpgradeStepItem#builder()}.
When the {@link Consumer} completes,
{@link UpgradeStepItem.Builder#build()} is called immediately and its result is passed to
{@link #member(UpgradeStepItem)}.\n@see #member(UpgradeStepItem)
\n@return Returns a reference to this object so that method calls can be chained
together.\n@see #member(UpgradeStepItem)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
@see #member(UpgradeStepItem)"
}
The new value for the Member property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.

"getterModel" : {
    "returnType" : "UpgradeStepItem",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"simple" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.

"setterMethodName" : "setMember",
"setterModel" : {
    "variableDeclarationType" : "UpgradeStepItem",
    "variableName" : "member",
    "variableType" : "UpgradeStepItem",
    "documentation" : null,
    "simpleType" : "UpgradeStepItem",
    "variableSetterType" : "UpgradeStepItem"
},

"simple" : false,
"timestampFormat" : null,
"variable": {
"variableDeclarationType": "UpgradeStepItem",
"variableName": "member",
"variableType": "UpgradeStepItem",
"documentation": "",
"simpleType": "UpgradeStepItem",
"variableSetterType": "UpgradeStepItem"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "UpgradeStepItem",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "UpgradeStepItem",
"templateImplType": "java.util.ArrayList<UpgradeStepItem>",
"templateType": "java.util.List<UpgradeStepItem>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "StepsList",
"sensitive": false,
"setterDocumentation": "<p> A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>\n@param stepsList A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.",
"setterMethodName": "setStepsList",
"setterModel": {
"variableDeclarationType": "java.util.List<UpgradeStepItem>",
"variableName": "stepsList",
"variableType": "java.util.List<UpgradeStepItem>",
"documentation": null,
"simpleType": "List<UpgradeStepItem>",
"variableSetterType": "java.util.Collection<UpgradeStepItem>"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.List<UpgradeStepItem>",
"variableName": "stepsList",
"variableType": "java.util.List<UpgradeStepItem>",
"documentation": "",
"simpleType": "List<UpgradeStepItem>",
"variableSetterType": "java.util.Collection<UpgradeStepItem>"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.List<UpgradeStepItem>",
"variableName": "stepsList",
"variableType": "java.util.List<UpgradeStepItem>",
"documentation": "<p> A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>",
"simpleType": "List<UpgradeStepItem>",
"variableSetterType": "java.util.Collection<UpgradeStepItem>"
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "UpgradeStatus",
"simpleMethod" : false,
"unmarshaller" : {
    "flattened" : false,
    "resultWrapper" : null
},
"variable" : {
    "variableDeclarationType" : "UpgradeStatus",
    "variableName" : "upgradeStatus",
    "variableType" : "UpgradeStatus",
    "documentation" : null,
    "simpleType" : "UpgradeStatus",
    "variableSetterType" : "UpgradeStatus"
},
"wrapper" : false
},
"UpgradeStep" : {
    "c2jName" : "UpgradeStep",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscovery" : null,
    "enums" : [ {
        "name" : "PRE_UPGRADE_CHECK",
        "value" : "PRE_UPGRADE_CHECK"
    },
    "name" : "SNAPSHOT"],
"value" : "SNAPSHOT"
],
"name" : "UPGRADE",
"value" : "UPGRADE"
}
],
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodesMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "UpgradeStep",
"simpleMethod" : false,
"unmarshaller" : { 
"flattened" : false,
"resultWrapper" : null
},
"variable" : { 
"variableDeclarationType" : "UpgradeStep",
"variableName" : "upgradeStep",
"variableType" : "UpgradeStep",
"documentation" : null,
"simpleType" : "UpgradeStep",
"variableSetterType" : "UpgradeStep"
},
"wrapper" : false
},
"UpgradeStepItem" : {
"c2jName" : "UpgradeStepItem",
"customization" : { 
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Represents a single step of the Upgrade or Upgrade Eligibility Check workflow.</p>"
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getUpgradeStepAsString",
  "beanStyleSetterMethodName" : "setUpgradeStep",
  "c2jName" : "UpgradeStep",
  "c2jShape" : "UpgradeStep",
  "defaultConsumerFluentSetterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #upgradeStepAsString(String)}.
@see UpgradeStep
@return Returns a reference to this object so that method calls can be chained together.
"deprecated" : false,
"documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
<ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
@endpointDiscoveryId" : false,
"enumType" : "UpgradeStep",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
<ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
@see UpgradeStep
@return Returns a reference to this object so that method calls can be chained together.
"getterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
<ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
@see UpgradeStep
@return Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
<ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
If the service returns an enum value that is not available in the current SDK version, { @link #upgradeStep} will return { @link UpgradeStep#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link #upgradeStepAsString}. 
@see UpgradeStep
@return Returns a reference to this object so that method calls can be chained together.
"getterModel" : [ { "returnType" : "String",}]}
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeStep",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpgradeStep",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStep",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"setterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
  <li>PreUpgradeCheck</li>
  <li>Snapshot</li>
  <li>Upgrade</li>
</ul>
@see UpgradeStep",
"setterMethodName" : "setUpgradeStep",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
}

"<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through:
The status of a particular step during an upgrade. The status can take one of the following values: In Progress, Succeeded, Failed, Succeeded with Issues.

This is a convenience that creates an instance of the String.Builder class, avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to String#upgradeStepStatus.

@see UpgradeStatus

@return Returns a reference to this object so that method calls can be chained together.
@see UpgradeStatus
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStepStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeStepStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStepStatus",
"sensitive" : false,
"setterDocumentation" : "The status of a particular step during an upgrade. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed.
@see UpgradeStatus",
"setterMethodName" : "setUpgradeStepStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStepStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStepStatus",
  "variableType" : "String",
  "documentation" : "The status of a particular step during an upgrade. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed."
}
"simpleType": "String",
"variableSetterType": "String"
},
"xmlnsNameSpaceUri": null
},
"beanStyleGetterMethodName": "getIssues",
"beanStyleSetterMethodName": "setIssues",
"c2jName": "Issues",
"c2jShape": "Issues",
"defaultValueConsumerFluentSetterDocumentation": "A list of strings containing detailed information about the errors encountered in a particular step.\n\nThis is a convenience that creates an instance of the [\@link List<String>.Builder] avoiding the need to create one manually via [\@link List<String>#builder()].\n\nWhen the [\@link Consumer] completes, [\@link List<String>.Builder#build()] is called immediately and its result is passed to [\@link issues(List<String>)].\n\n@see issues(List<String>)",
"deprecated": false,
"documentation": "A list of strings containing detailed information about the errors encountered in a particular step.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@return A list of strings containing detailed information about the errors encountered in a particular step.\n\n@throws UnsupportedOperationException\n\n@link List<String>.Builder#build()")",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "issues",
"fluentSetterDocumentation": "A list of strings containing detailed information about the errors encountered in a particular step.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationExce

"getterModel": {
"returnType": "java.util.List<String>",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Issues",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Issues",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : { 
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "Issue",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].\n@param member a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@param member The new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\nThe value of the Member property for this object.\n@return The value of the Member property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"uri" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "Issues",
"sensitive" : false,
"setterDocumentation" : "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>
@param issues A list of strings containing detailed information about the errors encountered in a particular step.
",
"setterMethodName" : "setIssues",
"setterModel" : {
	"variableDeclarationType" : "java.util.List<String>",
	"variableName" : "issues",
	"variableType" : "java.util.List<String>",
	"documentation" : null,
	"simpleType" : "List<String>",
	"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
	"variableDeclarationType" : "java.util.List<String>",
	"variableName" : "issues",
	"variableType" : "java.util.List<String>",
	"documentation" : "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>
",
	"simpleType" : "List<String>",
	"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getProgressPercent",
"beanStyleSetterMethodName" : "setProgressPercent",
"c2jName" : "ProgressPercent",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "<p>The floating point value representing progress percentage of a particular step.</p>

\nThis is a convenience that creates an instance of the { @link Double.Builder} avoiding the need to create one manually via { @link Double#builder()}.\n\nWhen the { @link Consumer} completes, { @link Double.Builder#build()} is called immediately and its result is passed to { @link #progressPercent(Double)}.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #progressPercent(Double)"
"deprecated" : false,
"documentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "progressPercent",
"fluentSetterDocumentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>
@param progressPercent The Floating point value representing progress percentage of a particular step.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "progressPercent",
"getterDocumentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>
@return The Floating point value representing progress percentage of a particular step.",
"getterModel" : {
  "returnType" : "Double",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ProgressPercent",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ProgressPercent",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "ProgressPercent",
"sensitive" : false,
"setterDocumentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>
@param progressPercent The Floating point value representing progress percentage of a particular step.
@return The Floating point value representing progress percentage of a particular step.",
"setterMethodName" : "setProgressPercent"
"setterModel" : {
    "variableDeclarationType" : "Double",
    "variableName" : "progressPercent",
    "variableType" : "Double",
    "documentation" : null,
    "simpleType" : "Double",
    "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Double",
    "variableName" : "progressPercent",
    "variableType" : "Double",
    "documentation" : "The Floating point value representing progress percentage of a particular step.",
    "simpleType" : "Double",
    "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},

"membersAsMap" : {
    "Issues" : {
        "beanStyleGetterMethodName" : "getIssues",
        "beanStyleSetterMethodName" : "setIssues",
        "c2jName" : "Issues",
        "c2jShape" : "Issues",
        "documentation" : "A list of strings containing detailed information about the errors encountered in a particular step.</p>
      "<p>This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()}.
      When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link List<String>#issues(List<String>)}.<br/>
      @return Returns a reference to this object so that method calls can be chained together.<br/>
      @see #issues(List<String>)",
        "deprecated" : false,
        "documentation" : "A list of strings containing detailed information about the errors encountered in a particular step.</p>
      "<p>
      "endpointDiscoveryId" : false,
      "enumType" : null,
      "eventHeader" : false,
      "eventPayload" : false,
      "fluentEnumGetterMethodName" : null,
      "fluentEnumSetterMethodName" : null,
      "fluentGetterMethodName" : "issues",
      "fluentSetterDocumentation" : "A list of strings containing detailed information about the errors encountered in a particular step.</p>
      "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>
      "<p>
      "fluentSetterMethodName" : "issues",
      "defaultConsumerFluentSetterDocumentation" : "A list of strings containing detailed information about the errors encountered in a particular step."
"getterDocumentation" : "<p>A list of strings containing detailed information about the errors encountered in a particular step.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return A list of strings containing detailed information about the errors encountered in a particular step.
",
"getterModel" : {  
   "returnType" : "java.util.List<String>",  
   "documentation" : null
},
"http" : {  
   "additionalMarshallingPath" : null,  
   "additionalUnmarshallingPath" : null,  
   "flattened" : false,  
   "greedy" : false,  
   "header" : false,  
   "isPayload" : false,  
   "isStreaming" : false,  
   "location" : null,  
   "marshallLocation" : "PAYLOAD",  
   "marshallLocationName" : "Issues",  
   "queryString" : false,  
   "statusCode" : false,  
   "unmarshallLocationName" : "Issues",  
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
   "implType" : "java.util.ArrayList",  
   "interfaceType" : "java.util.List",  
   "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",  
      "beanStyleSetterMethodName" : "setMember",  
      "c2jName" : "member",  
      "c2jShape" : "Issue",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [\@link String.Builder] avoiding the need to create one manually via [\@link String#builder()]. When the [\@link Consumer] completes, [\@link String.Builder#build()] is called immediately and its result is passed to [\@link #member(String)]\n\n@param member a consumer that will call methods on [\@link String.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(String)"
   }
},
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object."

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together."

"setterMethodName" : "setMember",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String"}
"variableSetterType": "String",
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "Issues",
"sensitive": false,
"setterDocumentation": "A list of strings containing detailed information about the errors encountered in a particular step.
@param issues A list of strings containing detailed information about the errors encountered in a particular step.",
"setterMethodName": "setIssues",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "issues",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "issues",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "issues",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "issues",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": true,
The Floating point value representing progress percentage of a particular step.

This is a convenience that creates an instance of the `Double.Builder` avoiding the need to create one manually via `Double.builder()`. When the `Consumer` completes, `Double.builder().build()` is called immediately and its result is passed to `Double progressPercent(Double)`.

```java
@link
@return

@see
#progressPercent(Double)
```
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ProgressPercent",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "ProgressPercent",
"sensitive" : false,
"setterDocumentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>
@param progressPercent The Floating point value representing progress percentage of a particular step.",
"setterMethodName" : "setProgressPercent",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "progressPercent",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "progressPercent",
  "variableType" : "Double",
  "documentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
"UpgradeStep" : {
  "beanStyleGetterMethodName" : "getUpgradeStepAsString",
  "beanStyleSetterMethodName" : "setUpgradeStep",
  "c2jName" : "UpgradeStep",
  "c2jShape" : "UpgradeStep",
  "defaultConsumerFluentSetterDocumentation" : "<p>Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul><li>PreUpgradeCheck</li><li>Snapshot</li><li>Upgrade</li></ul> This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link upgradeStepAsString(String)}.<p>
@param upgradeStep a
consumer that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #upgradeStep(String)

"deprecated" : false,
"documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
"endpointDiscoveryId" : false,
"enumType" : "UpgradeStep",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
@see UpgradeStep
@return Returns a reference to this object so that method calls can be chained together.\n@see UpgradeStep",
"fluentSetterMethodName" : "upgradeStep",
"getterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>

If the service returns an enum value that is not available in the current SDK version, {@link #upgradeStep} will return {@link UpgradeStep#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #upgradeStepAsString}

"getterModel" : {
   "returnType" : "String",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "UpgradeStep",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "UpgradeStep",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStep",
"sensitive" : false,
"setterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul> @param upgradeStep Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>
@see UpgradeStep",
"setterMethodName" : "setUpgradeStep",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul> </p>",
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "upgradeStep",
    "variableType" : "String",
    "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul> </p>",
    "simple" : true,
    "timestampFormat" : null
},
"UpgradeStepStatus" : {
  "beanStyleGetterMethodName" : "getUpgradeStepStatusAsString",
  "beanStyleSetterMethodName" : "setUpgradeStepStatus",
  "c2jName" : "UpgradeStepStatus",
  "c2jShape" : "UpgradeStepStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p> The status of a particular step during an upgrade. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul> </p>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #upgradeStepStatusAsString(String)}. @param upgradeStepStatus a consumer that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together. @see #upgradeStepStatus(String)",
    "deprecated" : false,
    "documentation" : "<p> The status of a particular step during an upgrade. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>"}
The status of a particular step during an upgrade. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed.

- In Progress
- Succeeded
- Succeeded with Issues
- Failed

If the service returns an enum value that is not available in the current SDK version, the method will return UpgradeStatus.UNKNOWN_TO_SDK_VERSION. The raw value returned by the service is available from UpgradeStepStatusAsString.

@see UpgradeStatus

@returns A reference to this object so that method calls can be chained together.
@see UpgradeStatus
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStepStatus",
"sensitive" : false,
"setterDocumentation" : "<p>The status of a particular step during an upgrade. The status can take one of the following values: \<ul>\li>In Progress\li>Succeeded\li>Succeeded with Issues\li>Failed</ul>\n\n@param upgradeStepStatus The status of a particular step during an upgrade. The status can take one of the following values: \<ul>\li>In Progress\li>Succeeded\li>Succeeded with Issues\li>Failed</ul>\n\n@see UpgradeStatus",
"setterMethodName" : "setUpgradeStepStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStepStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStepStatus",
  "variableType" : "String",
  "documentation" : "<p>The status of a particular step during an upgrade. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>

@see UpgradeStatus",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getUpgradeStepAsString",
  "beanStyleSetterMethodName" : "setUpgradeStep",
  "c2jName" : "UpgradeStep",
  "c2jShape" : "UpgradeStep",
  "defaultConsumerFluentSetterDocumentation" : "<p>Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul><li>PreUpgradeCheck</li><li>Snapshot</li><li>Upgrade</li></ul>

This is a convenience that creates an instance of the @link String.Builder] avoiding the need to create one manually via @link String#builder().\n\nWhen the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #upgradeStepAsString(String).\n\n@see #upgradeStep(String)"]",
  "deprecated" : false,
  "documentation" : "<p>Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul><li>PreUpgradeCheck</li><li>Snapshot</li><li>Upgrade</li></ul>\n\n@see UpgradeStep(String)"],"}
"endpointDiscoveryId" : false,
"enumType" : "UpgradeStep",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterDocumentation" : "<p>Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>
@param upgradeStep Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>
@see UpgradeStep
@return Returns a reference to this object so that method calls can be chained together.
@see UpgradeStep",
"fluentSetterMethodName" : "upgradeStep",
"getterDocumentation" : "<p>Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>
If the service returns an enum value that is not available in the current SDK version, [@link #upgradeStep] will return [@link UpgradeStep#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #upgradeStepAsString].

@see UpgradeStep
@return Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>
@see UpgradeStep",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeStep",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpgradeStep",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStep",
"setterDocumentation": "<p>Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>
@param upgradeStep Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>
@see UpgradeStep",
"setterMethodName": "setUpgradeStep",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "upgradeStep",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "upgradeStep",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getUpgradeStepStatusAsString",
"beanStyleSetterMethodName": "setUpgradeStepStatus",
"c2jName": "UpgradeStepStatus",
"c2jShape": "UpgradeStatus",
"defaultConsumerFluentSetterDocumentation": "<p>The status of a particular step during an upgrade. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link UpgradeStepStatusAsString(String)}\n@param upgradeStepStatus a consumer that will call methods on { @link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #upgradeStepStatus(String)",
"deprecated": false,
"documentation": "<p>The status of a particular step during an upgrade. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
@end

"endpointDiscoveryId": false,
"enumType": "UpgradeStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "upgradeStepStatus",
"fluentEnumSetterMethodName" : "upgradeStepStatus",
"fluentGetterMethodName" : "upgradeStepStatusAsString",
"fluentSetterDocumentation" : "The status of a particular step during an upgrade. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>\n\n@param upgradeStepStatus The status of a particular step during an upgrade. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>\n@see UpgradeStatus\n@return Returns a reference to this object so that method calls can be chained together.\n@see UpgradeStatus",
"fluentSetterMethodName" : "upgradeStepStatus",
"getterDocumentation" : "The status of a particular step during an upgrade. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>\n\nIf the service returns an enum value that is not available in the current SDK version, {@link #upgradeStepStatus} will return {@link UpgradeStatus#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #upgradeStepStatusAsString}.\n\n@return The status of a particular step during an upgrade. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>\n@see UpgradeStatus",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeStepStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpgradeStepStatus",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStepStatus",
"sensitive" : false,
"setterDocumentation" : "The status of a particular step during an upgrade. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>\n@see UpgradeStatus\n"
The status of a particular step during an upgrade. The status can take one of the following values:

- In Progress
- Succeeded
- Succeeded with Issues
- Failed

This is a convenience that creates an instance of the \{ @link List<String>.Builder \} avoiding the need to create one manually via \{ @link List<String>#builder\}().

When the \{ @link Consumer \} completes, \{ @link List<String>.Builder#build() \} is called immediately and its result is passed to \{ @link List<String>.Builder#issues() \}.

This method returns a reference to this object so that method calls can be chained together.

@see #issues(List<String>)

A list of strings containing detailed information about the errors encountered in a particular step.

This is a convenience that creates an instance of the \{ @link List<String>.Builder \} avoiding the need to create one manually via \{ @link List<String>#builder\}().

When the \{ @link Consumer \} completes, \{ @link List<String>.Builder#build() \} is called immediately and its result is passed to \{ @link List<String>.Builder#issues() \}.

This method returns a reference to this object so that method calls can be chained together.

@see #issues(List<String>)

A list of strings containing detailed information about the errors encountered in a particular step.

This is a convenience that creates an instance of the \{ @link List<String>.Builder \} avoiding the need to create one manually via \{ @link List<String>#builder\}().

When the \{ @link Consumer \} completes, \{ @link List<String>.Builder#build() \} is called immediately and its result is passed to \{ @link List<String>.Builder#issues() \}.

This method returns a reference to this object so that method calls can be chained together.

@see #issues(List<String>)
encountered in a particular step.

@param issues A list of strings containing detailed information about the errors encountered in a particular step.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "issues",
"getterDocumentation" : "A list of strings containing detailed information about the errors encountered in a particular step.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return A list of strings containing detailed information about the errors encountered in a particular step.

"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Issues",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Issues",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "Issue",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}. In param member a consumer that will call methods on {@link String.Builder}. Returns a reference to this object so that method calls can be chained together.

@see #member(String)

"deprecated" : false,
"documentation" : ""}
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterMethodName" : null,
"getterDocumentation" : "Sets the value of the Member property for this object.

@returns The new value for the Member property for this object.

@returns Returns a reference to this object so that method calls can be chained together.
",
"getterMethodName" : "member",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@returns The new value for the Member property for this object.

@returns Returns a reference to this object so that method calls can be chained together.
",
"setterMethodName" : "setMember",
"setterModel" : {"variableDeclarationType" : "String",}
"variableName": "member",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
}
,"simple": true,
"timestampFormat": null,
"variable": {
 "variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "Issues",
"sensitive": false,
"setterDocumentation": "A list of strings containing detailed information about the errors encountered in a particular step.",
"setterMethodName": "setIssues",
"setterModel": {
 "variableDeclarationType": "java.util.List<String>",
"variableName": "issues",
"variableType": "java.util.List<String>",
"documentation": null,
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {


"variableDeclarationType" : "java.util.List<String>",
"variableName" : "issues",
"variableType" : "java.util.List<String>",
"documentation" : "A list of strings containing detailed information about the errors encountered in a particular step.";
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getProgressPercent",
"beanStyleSetterMethodName" : "setProgressPercent",
"c2jName" : "ProgressPercent",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "The Floating point value representing progress percentage of a particular step.\nThis is a convenience that creates an instance of the \{ @link Double.Builder \} avoiding the need to create one manually via \{ @link Double#builder() \}.\nWhen the \{ @link Consumer \} completes, \{ @link Double.Builder#build() \} is called immediately and its result is passed to \{ @link #progressPercent(Double) \}.\n@see #progressPercent(Double)",
"deprecated" : false,
"documentation" : "The Floating point value representing progress percentage of a particular step.\nendpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "progressPercent",
"fluentSetterDocumentation" : "The Floating point value representing progress percentage of a particular step.\n"fluentSetterMethodName" : "progressPercent",
"getterDocumentation" : "The Floating point value representing progress percentage of a particular step.\n@see #getterMethod()",
"getterModel" : {
"returnType" : "Double",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "ProgressPercent",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ProgressPercent",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "DOUBLE",
"name": "ProgressPercent",
" sensitive": false,
"setterDocumentation": "<p>The Floating point value representing progress percentage of a particular step.</p>
@<p>@param progressPercent The Floating point value representing progress percentage of a particular step.</p>",
"setterMethodName": "setProgressPercent",
"setterModel": {
  "variableDeclarationType": "Double",
  "variableName": "progressPercent",
  "variableType": "Double",
  "documentation": null,
  "simpleType": "Double",
  "variableSetterType": "Double"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Double",
  "variableName": "progressPercent",
  "variableType": "Double",
  "documentation": null,
  "simpleType": "Double",
  "variableSetterType": "Double"
},
"xmlNameSpaceUri": null
}],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "UpgradeStepItem",
"simpleMethod": false,
"unmarshaller": {
null
],
"variable" : {
  "variableDeclarationType" : "UpgradeStepItem",
  "variableName" : "upgradeStepItem",
  "variableType" : "UpgradeStepItem",
  "documentation" : null,
  "simpleType" : "UpgradeStepItem",
  "variableSetterType" : "UpgradeStepItem"
},
"wrapper" : false
},
"VPCDerivedInfo" : {
  "c2jName" : "VPCDerivedInfo",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html)"
},
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [
  {
    "beanStyleGetterMethodName" : "getVpcId",
    "beanStyleSetterMethodName" : "setVpcId",
    "c2jName" : "VPCId",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions. This is a convenience that creates an instance of the {String.Builder} avoiding the need to create one manually via {String#builder()}. When the {Consumer} completes, {String.Builder#build()} is called immediately and its result is passed to {#vpcId(String)}. @param vpcId a consumer that will call methods on {String.Builder}@return Returns a reference to this object so that method calls can be chained together.see #vpcId(String)",
  }
]
"deprecated" : false,
"documentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcId",
"fluentSetterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "vpcId",
"getterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@return The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "VPCId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "VPCId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "VPCId",
"sensitive" : false,
"setterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>\n@param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
"setterMethodName" : "setVpcId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "vpcId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "vpcId",
  "variableType" : "String",
  "documentation" : "The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null},
{
  "beanStyleGetterMethodName" : "getSubnetIds",
  "beanStyleSetterMethodName" : "setSubnetIds",
  "c2jName" : "SubnetIds",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}.\nWhen the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #subnetIds(List<String>)}.\n@param subnetIds a consumer that will call methods on {
@link List<String>.Builder} a consumer that will call methods on {
@link List<String>.Builder}.
@see #subnetIds(List<String>)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "subnetIds",
  "fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>\n@param subnetIds Specifies the subnets for VPC endpoint.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>\n@param subnetIds Specifies the subnets for VPC endpoint.\n@return Returns a reference to this object so that method calls can be chained together.";
"
"fluentSetterMethodName" : "subnetIds",
"getterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperation
Exception.</p>
"@return Specifies the subnets for VPC endpoint.",
"getterModel" : {
 "returnType" : "java.util.List<String>",
 "documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : "null",
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "SubnetIds",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "SubnetIds",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
 "implType" : "java.util.ArrayList",
 "interfaceType" : "java.util.List",
 "listMemberModel" : {
 "beanStyleGetterMethodName" : "getMember",
 "beanStyleSetterMethodName" : "setMember",
 "c2jName" : "member",
 "c2jShape" : "String",
 "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the [\@link String.Builder] avoiding the need to create
one manually via [\@link String#builder()]. When the [\@link Consumer] completes, [\@link
String.Builder#build()] is called immediately and its result is passed to [\@link #member(String)].
\@param member a consumer that will call methods on [\@link String.Builder]\@return Returns a reference to this object so
that method calls can be chained together.\@see #member(String)",
 "deprecated" : false,
 "documentation" : "",
 "endpointDiscoveryId" : false,
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object."
getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String"
"variableSetterType" : "String",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.",
"setterMethodName" : "setSubnetIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
"xmlNameSpaceUri" : null
],
  
  "beanStyleGetterMethodName" : "getAvailabilityZones",
  "beanStyleSetterMethodName" : "setAvailabilityZones",
  "c2jName" : "AvailabilityZones",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}.
When the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #availabilityZones(List<String>)}.
@see #availabilityZones
@see #availabilityZones(List<String>)",
  "deprecated" : false,
  "documentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "availabilityZones",
  "fluentSetterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@see #availabilityZones
@see #availabilityZones(List<String>)",
  "fluentSetterMethodName" : "availabilityZones",
  "getterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
Attempts to modify the collection returned by this method will result in an UnsuportedOperationException.
@see #availabilityZones
@see #availabilityZones(List<String>)",
  "getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",}
"marshallLocationName" : "AvailabilityZones",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AvailabilityZones",
"uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"ListModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "ListMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #member(String)\}.\n\n@see #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object. @return Returns a reference to this object so that method calls can be chained together. \n@see #member(String)",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object. @return The value of the Member property for this object. \n@see #member(String)",
    "getterModel" : {
      "returnType" : "String",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
,  
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "AvailabilityZones",
"sensitive" : false,
"setterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@param availabilityZones The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
setterMethodName" : "setAvailabilityZones",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "availabilityZones",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "java.util.List<String>",
    "variableName" : "availabilityZones",
    "variableType" : "java.util.List<String>",
    "documentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
    "simpleType" : "List<String>",
    "variableSetterType" : "java.util.Collection<String>",
    "xmlNameSpaceUri" : null
  },
  "beanStyleGetterMethodName" : "getSecurityGroupIds",
  "beanStyleSetterMethodName" : "setSecurityGroupIds",
  "c2jName" : "SecurityGroupIds",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}.
When the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link List<String>.Builder#build()} a consumer that will call methods on {@link List<String>.Builder#build()}.
@return Returns a reference to this object so that method calls can be chained together.
@see #securityGroupIds(List<String>)",
  "deprecated" : false,
"documentation": "<p>Specifies the security groups for VPC endpoint.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "securityGroupIds",
"fluentSetterDocumentation": "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "securityGroupIds",
"getterDocumentation": "<p>Specifies the security groups for VPC endpoint.</p>
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return Specifies the security groups for VPC endpoint.",
"getterModel": {
  "returnType": "java.util.List<String>",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "SecurityGroupIds",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "SecurityGroupIds",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "String",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this
This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #member(String)\}. 

The new value for the \Member property for this object.

\return Returns a reference to this object so that method calls can be chained together.

\override

\return Returns a reference to this object so that method calls can be chained together.

\param member a consumer that will call methods on \{@link String.Builder\}

\return Returns a reference to this object so that method calls can be chained together.

\@see #member(String)
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SecurityGroupIds",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint.",
"setterMethodName" : "setSecurityGroupIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"}
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "securityGroupIds",
"variableType" : "java.util.List<String>",
"documentation" : "<p>Specifies the security groups for VPC endpoint.&lt;/p&gt;",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"}
},
"xmlNameSpaceUri" : null
}],
"membersAsMap" : {
"AvailabilityZones" : {
"beanStyleGetterMethodName" : "getAvailabilityZones",
"beanStyleSetterMethodName" : "setAvailabilityZones",
"c2jName" : "AvailabilityZones",
"c2jShape" : "StringList",
"defaultValueConsumerFluentSetterDocumentation" : "&lt;p&gt;The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.&lt;/p&gt;&lt;p&gt;This is a convenience that creates an instance of the {@[link List<String>.Builder]} avoiding the need to create one manually via @{link List<String>#builder()}&lt;/p&gt;&lt;p&gt;When the {@[link Consumer]} completes, {@[link List<String>.Builder#build]} is called immediately and its result is passed to {@[link #availabilityZones(List<String>))}
"@param availabilityZones
"@return Returns a reference to this object so that method calls can be chained together.&lt;@see #availabilityZones(List<String>)
"@deprecated" : false,
"documentation" : "&lt;p&gt;The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.&lt;/p&gt;",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "availabilityZones",
"fluentSetterMethodName" : "availabilityZones",
"fluentSetterDocumentation" : "&lt;p&gt;The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.&lt;/p&gt;&lt;p&gt;@param availabilityZones
"@return Returns a reference to this object so that method calls can be chained together.
"@see #availabilityZones(List<String>)",
"getterDocumentation" : "&lt;p&gt;The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.&lt;/p&gt;&lt;p&gt;Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
"@return The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
"getterModel" : {"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"}
,"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "securityGroupIds",
"variableType" : "java.util.List<String>",
"documentation" : "<p>Specifies the security groups for VPC endpoint.&lt;/p&gt;",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"}
},
"xmlNameSpaceUri" : null
}];
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AvailabilityZones",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AvailabilityZones",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listModel" : {
  "beanStyleGetterMethodName" : "getMember",
  "beanStyleSetterMethodName" : "setMember",
  "c2jName" : "member",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the $@link String.Builder$ avoiding the need to create
one manually via $@link String#builder()$. When the $@link Consumer$ completes, $@link String.Builder#build()$ is called immediately and its result is passed to $@link #member(String)$.
@param member a consumer that will call methods on $@link String.Builder$.
@returns a reference to this object so that method calls can be chained together.
@see #member(String)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
@returns a reference to this object.
@see #member(String)"
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
@returns a reference to this object so that method
calls can be chained together."

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object."

"getterModel" : { 
"returnType" : "String",
"documentation" : null
",
"http" : { 
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
",
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n@param member The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : { 
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
",
"simple" : true,
"timestampFormat" : null,
"variable" : { }
The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

```
@Param availabilityZones The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
```

```java
java.util.ArrayList<String>
```

```java
java.util.List<String>
```
"SecurityGroupIds" : {
  "beanStyleGetterMethodName" : "getSecurityGroupIds",
  "beanStyleSetterMethodName" : "setSecurityGroupIds",
  "c2jName" : "SecurityGroupIds",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the {@link Consumer} completes, the method builds and passes its result to the method.

When the {@link List<String>.Builder#build()} is called immediately and its result is passed to the method.

@see #securityGroupIds(List<String>)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "securityGroupIds",
  "fluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.
@see #securityGroupIds(List<String>)",
  "fluentSetterMethodName" : "securityGroupIds",
  "getterDocumentation" : "<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return Specifies the security groups for VPC endpoint.
"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "SecurityGroupIds",
  "queryString" : null,
  "statusCode" : false,
  "unmarshallLocationName" : "SecurityGroupIds",
  "uri" : false
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #member(String)}. @param member a consumer that will call methods on { @link String.Builder} @return Returns a reference to this object so that method calls can be chained together.
@see #member(String)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object.
@returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.
@returns The value of the Member property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  }
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD"
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
],
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"sensitive": false,
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": ",",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
],
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
Specifies the security groups for VPC endpoint.

@param securityGroupIds
Specifies the security groups for VPC endpoint.

@author
This is a convenience that creates an instance of the List<String>.Builder avoiding the need to create one manually via List<String>.Builder().

When the Consumer completes, List<String>.Builder.build() is called immediately and its result is passed to #subnetIds(List<String>)

@see #subnetIds(List<String>)

@deprecated
This is a convenience that creates an instance of the List<String>.Builder avoiding the need to create one manually via List<String>.Builder().

When the Consumer completes, List<String>.Builder.build() is called immediately and its result is passed to #subnetIds(List<String>)

@see #subnetIds(List<String>)
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "subnetIds",
"fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.\n@returns Returns a reference to this object so that method calls can be chained together.\</p>\n\n@returns Returns a reference to this object so that method calls can be chained together.\", 
"fluentSetterMethodName" : "subnetIds",
"getterDocumentation" : "<p>Specifies the subnets for VPC endpoint.\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@returns Specifies the subnets for VPC endpoint.\", 
"getterModel" : { 
"returnType" : "java.util.List<String>", 
"documentation" : null 
}, 
"http" : { 
"additionalMarshallingPath" : null, 
"additionalUnmarshallingPath" : null, 
"flattened" : false, 
"greedy" : false, 
"header" : false, 
"isPayLoad" : false, 
"isStreaming" : false, 
"location" : null, 
"marshallLocation" : "PAYLOAD", 
"marshallLocationName" : "SubnetIds", 
"queryString" : false, 
"statusCode" : false, 
"unmarshallLocationName" : "SubnetIds", 
"uri" : false 
}, 
"idempotencyToken" : false, 
"isBinary" : false, 
"JsonValue" : false, 
"list" : true, 
"listModel" : { 
"implType" : "java.util.ArrayList", 
"interfaceType" : "java.util.List", 
"listMemberModel" : { 
"beanStyleGetterMethodName" : "getMember", 
"beanStyleSetterMethodName" : "setMember", 
"c2jName" : "member", 
"c2jShape" : "String", 
"defaultValueSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [\link String.Builder\] avoiding the need to create one manually via [\link String#builder\(\)].\nWhen the [\link Consumer\] completes, [\link 
String.Builder#build\(\)] is called immediately and its result is passed to [\link #member\(String\)].\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #member\(String\)", 
"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.
@returns Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@returns The value of the Member property for this object."
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.
@returns Returns a reference to this object so that method calls can be chained together."
"setterMethodName" : "setMember",
"setterModel" : {"returnType" : "String",
"documentation" : null}
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p><p>@param subnetIds Specifies the subnets for VPC endpoint.</p>",
"setterMethodName" : "setSubnetIds",
"setterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "subnetIds",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "java.util.List<String>",
"variableName" : "subnetIds",
"variableType" : "java.util.List<String>",
"documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
}],
"xmlNameSpaceUri" : null
},
"VPCId" : {
"beanStyleGetterMethodName" : "getVpcId",
"beanStyleSetterMethodName" : "setVpcId",
"c2jName" : "VPCId",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #vpcId(String)}.

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #vpcId(String)}.

@see #vpcId(String)",
"deprecated" : false,
"documentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcId",
"fluentSetterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@n@param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
@n@return Returns a reference to this object so that method calls can be chained together.
@n@see #vpcId(String)",
"deprecated" : false,
"documentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@n@param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
@n@return Returns a reference to this object so that method calls can be chained together.
@n@see #vpcId(String)",
"getterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@n@return The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
@n@see #vpcId(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCId",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "VPCId",
"sensitive" : false,
"setterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
"setterMethodName" : "setVpcId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "vpcId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "vpcId",
  "variableType" : "String",
  "documentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
]
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getVpcId",
"beanStyleSetterMethodName" : "setVpcId",
"c2jName" : "VPCId",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link StringVPCId(String)}.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link StringVPCId(String)}.

@ see {#vpcId(String)}",
"deprecated" : false,
"documentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
"enumDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcId",
"fluentSetterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "vpcId",
"getterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@return The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions."
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "VPCId",
"sensitive" : false,

"setterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",

"setterMethodName" : "setVpcId",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "vpcId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "vpcId",
  "variableType" : "String",
  "documentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",

"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>

This is a convenience that creates an instance of the {<link List<String>.Builder>}. When the {<link Consumer>} completes, {<link List<String>}} is called immediately and its result is passed to {<link #subnetIds(List<String>)>}

@see #subnetIds(List<String>)",

"deprecated" : false,

"documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "subnetIds",
"fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "subnetIds",
"getterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
@return Specifies the subnets for VPC endpoint."
"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "SubnetIds",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "SubnetIds",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object."
  }
}
String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}.

@param member a consumer that will call methods on {String.Builder}
@return Returns a reference to this object so that method calls can be chained together.

@see #member(String)

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.
",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,


"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>

@param subnetIds Specifies the subnets for VPC endpoint.
"setterMethodName" : "setSubnetIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "Specifies the subnets for VPC endpoint."
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getAvailabilityZones",
"beanStyleSetterMethodName" : "setAvailabilityZones",
"c2jName" : "AvailabilityZones",
"c2jShape" : "StringList",
"defaultConsumerFluentSetterDocumentation" : "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions. This is a convenience that creates an instance of the \{ @link List<String>.Builder\} avoiding the need to create one manually via \{ @link List<String>#builder()\}. When the [ @link Consumer] completes, \{ @link List<String>.Builder#build()\} is called immediately and its result is passed to \{ @link availabilityZones(List<String>)\}.\n\n@see availabilityZones(List<String>)"
},
"deprecated" : false,
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "availabilityZones",
"fluentSetterDocumentation" : "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@see availabilityZones(List<String>)"
},
"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AvailabilityZones",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AvailabilityZones",
"uri" : false,}

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}\n@defparam member a consumer that will call methods on {@link String.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@defparam member member
The value of the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object.",
}
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"敏感" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : ""
};
"simpleType": "String",
"variableSetterType": "String"
],
"xmlNameSpaceUri": null
],
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>
],
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "AvailabilityZones",
"sensitive": false,
"setterDocumentation": "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@param availabilityZones The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
"setterMethodName": "setAvailabilityZones",
"setterModel": {
"variableDeclarationType": "java.util.List<String>",
"variableName": "availabilityZones",
"variableType": "java.util.List<String>",
"documentation": null,
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>
",
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.List<String>",
"variableName": "availabilityZones",
"variableType": "java.util.List<String>",
"documentation": "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>
",
"xmlNameSpaceUri": null
],
"beanStyleGetterMethodName": "getSecurityGroupIds",
"beanStyleSetterMethodName": "setSecurityGroupIds",
"c2jName": "SecurityGroupIds"}
"c2jShape" : "StringList",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>

This is a convenience that creates an instance of the [List<String>].Builder avoiding the need to create one manually via [List<String>#builder()].

When the Consumer completes, [List<String>.Builder#build()] is called immediately and its result is passed to [securityGroupIds(List<String>)].

@see #securityGroupIds(List<String>)

"deprecated" : false,
"documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "securityGroupIds",
"fluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>

@param securityGroupIds a consumer that will call methods on [List<String>.Builder]

@return Returns a reference to this object so that method calls can be chained together.

"getterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Specifies the security groups for VPC endpoint.
",

"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "SecurityGroupIds",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "SecurityGroupIds",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "String",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object. This is a convenience that creates an instance of the \{@link String.Builder} avoiding the need to create one manually via \{@link String#builder()}\nWhen the \{@link Consumer} completes, \{@link String.Builder#build()} is called immediately and its result is passed to \{@link #member(String)}\n\n@see #member(String)",
    "deprecated": false,
    "documentation": "",
    "endpointDiscoveryId": false,
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "member",
    "fluentSetterDocumentation": "Sets the value of the Member property for this object.\n\n\n@see #member(String)",
    "fluentSetterMethodName": "member",
    "getterDocumentation": "Returns the value of the Member property for this object.\n\n@see #member(String)",
    "getterModel": {
      "returnType": "String",
      "documentation": null
    },
    "http": {
      "additionalMarshallingPath": null,
      "additionalUnmarshallingPath": null,
      "flattened": false,
      "greedy": false,
      "header": false,
      "isPayload": false,
      "isStreaming": false,
      "location": null,
      "marshallLocation": "PAYLOAD",
      "marshallLocationName": "member",
      "queryString": false,
      "statusCode": false,
      "unmarshallLocationName": "member",
      "uri": false
    }
  }
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
"sensitive": false,
"setterDocumentation": "<p>Specifies the security groups for VPC endpoint.</p>\n@param securityGroupIds
Specifies the security groups for VPC endpoint.",
"setterMethodName": "setSecurityGroupIds",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "securityGroupIds",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "securityGroupIds",
  "variableType": "java.util.List<String>",
  "documentation": "<p>Specifies the security groups for VPC endpoint.</p>",
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
},
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "VPCDerivedInfo",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "VPCDerivedInfo",
  "variableName": "vpcDerivedInfo",
  "variableType": "VPCDerivedInfo",
  "documentation": null,
  "simpleType": "VPCDerivedInfo",
  "variableSetterType": "VPCDerivedInfo"
},
"wrapper": false
},
"VPCDerivedInfoStatus": {
  "c2jName": "VPCDerivedInfoStatus",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
<p>Status of the VPC options for the specified Elasticsearch domain.</p>

This is a convenience that creates an instance of the VPCDerivedInfo.Builder avoiding the need to create one manually via VPCDerivedInfo.Builder(). When the Consumer completes, VPCDerivedInfo.Builder.build() is called immediately and its result is passed to #options(VPCDerivedInfo). Returns a reference to this object so that method calls can be chained together.

@see #options(VPCDerivedInfo)

Specifies the VPC options for the specified Elasticsearch domain.

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Specifies the VPC options for the specified Elasticsearch domain.
<p>Specifies the VPC options for the specified Elasticsearch domain.</p>

```
public void setOptions(VPCDerivedInfo options) {
    // Set options here
}
```

```
VPCDerivedInfo options = // Get options from somewhere
setOptions(options);
```

<p>Specifies the VPC options for the specified Elasticsearch domain.</p>
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "\n<p> Specifies the status of the VPC options for the specified Elasticsearch domain. This is a convenience that creates an instance of the { @link OptionStatus.Builder} avoiding the need to create one manually via { @link OptionStatus.Builder#builder()}. When the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link OptionStatus.Builder}\n@\n@return Returns a reference to this object so that method calls can be chained together.\n@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "\n<p> Specifies the status of the VPC options for the specified Elasticsearch domain.\n</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterMethodName" : "status",
"fluentSetterDocumentation" : "\n<p> Specifies the status of the VPC options for the specified Elasticsearch domain.\n</p>
@\n@param status Specifies the status of the VPC options for the specified Elasticsearch domain.\n@\n@return Specifies the status of the VPC options for the specified Elasticsearch domain.\n",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
"sensitive": false,
"setterDocumentation": "<p> Specifies the status of the VPC options for the specified Elasticsearch domain. </p>
@param status Specifies the status of the VPC options for the specified Elasticsearch domain.",
"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p> Specifies the status of the VPC options for the specified Elasticsearch domain. </p>",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"xmlnsNameSpaceUri": null
},
"membersAsMap": {
"Options": {
  "beanStyleGetterMethodName": "getOptions",
  "beanStyleSetterMethodName": "setOptions",
  "c2jName": "Options",
  "c2jShape": "VPCDerivedInfo",
  "defaultConsumerFluentSetterDocumentation": "<p> Specifies the VPC options for the specified Elasticsearch domain. </p>"
},
"This is a convenience that creates an instance of the {@link VPCDerivedInfo.Builder} avoiding the need to create one manually via {@link VPCDerivedInfo#builder()}.

When the {@link Consumer} completes, {@link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to {@link #options(VPCDerivedInfo)}.  

@param options a consumer that will call methods on {@link VPCDerivedInfo.Builder} returns a reference to this object so that method calls can be chained together.
@see #options(VPCDerivedInfo)
"portlet="false,
"documentation": "<p> Specifies the VPC options for the specified Elasticsearch domain. </p>"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterMethodName" : "options",
"fluentSetterDocumentation" : "\<p\> Specifies the VPC options for the specified Elasticsearch domain.\n\<param\> options Specifies the VPC options for the specified Elasticsearch domain.\n\<return\> Returns a reference to this object so that method calls can be chained together.\>",
"getterDocumentation" : "\<p\> Specifies the VPC options for the specified Elasticsearch domain.\n\<param\> options Specifies the VPC options for the specified Elasticsearch domain.\n\<return\> Specifies the VPC options for the specified Elasticsearch domain.\>",
"getterModel" : {
  "returnType" : "VPCDerivedInfo",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"sensitive" : false,
"setterDocumentation" : "\<p\> Specifies the VPC options for the specified Elasticsearch domain.\n\<param\> options Specifies the VPC options for the specified Elasticsearch domain.\n\<return\> Specifies the VPC options for the specified Elasticsearch domain.\>",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfo",
}
"variableName" : "options",
"variableType" : "VPCDerivedInfo",
"documentation" : null,
"simpleType" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "VPCDerivedInfo",
"variableName" : "options",
"variableType" : "VPCDerivedInfo",
"documentation" : "<p>Specifies the VPC options for the specified Elasticsearch domain.</p>",
"simpleType" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
},
"xmlNameSpaceUri" : null
},
"Status" : {
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>\n\nThis is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus#builder()}.\n\nWhen the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link #status(OptionStatus)}.\n\n@param status a consumer that will call methods on {@link OptionStatus.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "getStatus",
"fluentEnumSetterMethodName" : "setStatus",
"fluentGetterMethodName" : "status",
"fluentSetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>
\n@see #status(OptionStatus)\n\n@param status\n@see #status(OptionStatus)\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #status(OptionStatus)",
"getterDocumentation" : "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>
\n@see #status(OptionStatus)\n\n@param status\n@see #status(OptionStatus)\n\n@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
}
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"marshallType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain. </p>@param status Specifies the status of the VPC options for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
}
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getOptions",
  "beanStyleSetterMethodName" : "setOptions",
  "c2jName" : "Options",
  "c2jShape" : "VPCDerivedInfo",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link VPCDerivedInfo.Builder} avoiding the need to create one manually via {@link VPCDerivedInfo#builder()}. When the {@link Consumer} completes, {@link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to {@link #options(VPCDerivedInfo)}.
@param options a consumer that will call methods on {@link VPCDerivedInfo.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #options(VPCDerivedInfo)",
  "deprecated" : false,
  "documentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "options",
  "fluentSetterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>
@param options Specifies the VPC options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "options",
  "getterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>
@return Specifies the VPC options for the specified Elasticsearch domain.",
  "getterModel" : {
  "returnType" : "VPCDerivedInfo",
  "documentation" : null
  },
  "http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options"}
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>\n@param options Specifies the VPC options for the specified Elasticsearch domain.\n",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "options",
  "variableType" : "VPCDerivedInfo",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "options",
  "variableType" : "VPCDerivedInfo",
  "documentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>",
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.\nThis is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}.\nWhen the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {.@link \nstatus(OptionStatus)}.\n@param status a consumer that will call methods on {@link OptionStatus.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #status(OptionStatus)",
  "deprecated" : false,
  "documentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.</p>"
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the VPC options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>
@return Specifies the status of the VPC options for the specified Elasticsearch domain.",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the VPC options for the specified Elasticsearch domain.",
"setterMethodname" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "setterType" : "OptionStatus",
  "setterMethodName" : "setStatus",
  "setterReturn" : "OptionStatus",
  "setterIsArray" : false
}
"variableName": "status",
"variableType": "OptionStatus",
"documentation": null,
"simpleType": "OptionStatus",
"variableSetterType": "OptionStatus"
",
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
",
"xmlNameSpaceUri": null
}]
",
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": ["Options", "Status"],
"shapeName": "VPCDerivedInfoStatus",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
}
",
"variable": {
  "variableDeclarationType": "VPCDerivedInfoStatus",
  "variableName": "vpcDerivedInfoStatus",
  "variableType": "VPCDerivedInfoStatus",
  "documentation": null,
  "simpleType": "VPCDerivedInfoStatus",
  "variableSetterType": "VPCDerivedInfoStatus"
",
"wrapper": false
}
",
"VPCOptions": {
  "c2jName": "VPCOptions",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  }
",
  "deprecated": false,
  "documentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more
For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

```json
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getSubnetIds",
  "beanStyleSetterMethodName" : "setSubnetIds",
  "c2jName" : "SubnetIds",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
  This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()}. When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link #subnetIds(List<String>)}.
  @param subnetIds a consumer that will call methods on { @link List<String>.Builder}.
  @return Returns a reference to this object so that method calls can be chained together.
  @see #subnetIds(List<String>)
},
  "deprecated" : false,
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "subnetIds",
  "fluentSetterMethodName" : "subnetIds",
  "fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
  @param subnetIds Specifies the subnets for VPC endpoint.
  @return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
  }]
```
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SubnetIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SubnetIds",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].\n@see #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@see #member(String)",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n@see #member(String)"
  }
}
"returnType" : "String",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"simple" : true,
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String"
"variableSetterType" : "String",
"xmlNameSpaceUri" : null
],
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>
],
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.",
"setterMethodName" : "setSubnetIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>
]
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>
]
},
"xmlNameSpaceUri" : null
], {
  "beanStyleGetterMethodName" : "getSecurityGroupIds",
  "beanStyleSetterMethodName" : "setSecurityGroupIds",
  "c2jName" : "SecurityGroupIds",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need..."
to create one manually via `List<String>#builder()`.

When the `Consumer` completes, `List<String>.Builder#build()` is called immediately and its result is passed to `securityGroupIds(List<String>)`.

```java
@link #securityGroupIds(List<String>)
```

```java
@link Consumer
```

```java
@see #securityGroupIds(List<String>)
```

```java
@deprecated
```

```java
@link List<String>#builder()
```

```java
@link #securityGroupIds(List<String>)
```

```java
@link #securityGroupIds(List<String>)
```

```java
@link #securityGroupIds(List<String>)
```

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@link #securityGroupIds(List<String>)
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@link #securityGroupIds(List<String>)
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@link #securityGroupIds(List<String>)
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@link #securityGroupIds(List<String>)
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@link #securityGroupIds(List<String>)
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@link #securityGroupIds(List<String>)
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```java
@link #securityGroupIds(List<String>)
```

```java
@link #securityGroupIds(List<String>)
```

```java
@link #securityGroupIds(List<String>)
```
"listMemberModel" : {
  "beanStyleGetterMethodName" : "getMember",
  "beanStyleSetterMethodName" : "setMember",
  "c2jName" : "member",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #member(String)}.

  @param member a consumer that will call methods on { @link String.Builder}
  @return Returns a reference to this object so that method calls can be chained together.
  @see #member(String)",
  "deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object."
  "param member The new value for the Member property for this object."
  @return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object."
  @return The value of the Member property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"sensitive": false,
"setterDocumentation": "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation":",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "SecurityGroupIds",
"sensitive": false,
"setterDocumentation": "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint."},
"setterMethodName" : "setSecurityGroupIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "Specifies the security groups for VPC endpoint.
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #securityGroupIds(List<String>)}. param securityGroupIds a consumer that will call methods on {@link List<String>.Builder} to return a reference to this object so that method calls can be chained together.

@see #securityGroupIds(List<String>)",
  "deprecated" : false,
  "documentation" : "Specifies the security groups for VPC endpoint.
endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "securityGroupIds",
  "fluentSetterDocumentation" : "Specifies the security groups for VPC endpoint.
gets the value of the securityGroupIds property from the request context
If there is no key with that name in the request context, this method has no effect.

@see #securityGroupIds

@see #securityGroupIds(List<String>)",
  "getterDocumentation" : "Attempts to modify..."
the collection returned by this method will result in an UnsupportedOperationException.

@return Specifies the security groups for VPC endpoint.

"getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "SecurityGroupIds",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "SecurityGroupIds",
    "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : true,

"listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
        "beanStyleGetterMethodName" : "getMember",
        "beanStyleSetterMethodName" : "setMember",
        "c2jName" : "member",
        "c2jShape" : "String",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create
one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link
String.Builder#build()} is called immediately and its result is passed to { @link #member(String)}.@param
member a consumer that will call methods on { @link String.Builder}@return Returns a reference to this object so
that method calls can be chained together.@see #member(String)",
        "deprecated" : false,
        "documentation" : "",
        "endpointDiscoveryId" : false,
        "enumType" : null,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : null,
        "fluentEnumSetterMethodName" : null,
    }
}

"implType" : "java.util.ArrayList",

"interfaceType" : "java.util.List",

"listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create
one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link
String.Builder#build()} is called immediately and its result is passed to { @link #member(String)}.@param
member a consumer that will call methods on { @link String.Builder}@return Returns a reference to this object so
that method calls can be chained together.@see #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "endpointDiscoveryId" : false,
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"}
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SecurityGroupIds",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint.",
"setterMethodName" : "setSecurityGroupIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
}
"xmlNameSpaceUri" : null
},
"SubnetIds" : {
"beanStyleGetterMethodName" : "getSubnetIds",
"beanStyleSetterMethodName" : "setSubnetIds",
"c2jName" : "SubnetIds",
"c2jShape" : "StringList",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p><p>This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the Consumer completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #subnetIds(List<String>)}. Returns a reference to this object so that method calls can be chained together.</p>
@see #subnetIds(List<String>)",
"deprecated" : false,
"documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "subnetIds",
"fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.
@see #subnetIds(List<String>)",
"fluentSetterMethodName" : "subnetIds",
"getterDocumentation" : "<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return Specifies the subnets for VPC endpoint.
@see #subnetIds(List<String>)",
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SubnetIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SubnetIds"}
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #member(String)].

- param member a consumer that will call methods on [link String.Builder]
- return Returns a reference to this object so that method calls can be chained together.
- see #member(String)

- deprecated" : false,
  "documentation" : "",
  "endpointDiscoveryId" : false,
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object can be chained together.

- fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.

  - return The value of the Member property for this object.

  - getDocumentation" : "Returns the value of the Member property for this object.

   - return The value of the Member property for this object.

  - getModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
],
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "SubnetIds",
"sensitive": false,
"setterDocumentation": "<p>Specifies the subnets for VPC endpoint.</p>
@\param subnetIds Specifies the subnets for VPC endpoint."
,"setterMethodName": "setSubnetIds",
"setterModel": {
"variableDeclarationType": "java.util.List<String>",
"variableName": "subnetIds",
"variableType": "java.util.List<String>",
"documentation": null,
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.List<String>",
"variableName": "subnetIds",
"variableType": "java.util.List<String>",
"documentation": "<p>Specifies the subnets for VPC endpoint.</p>",
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
}]
],
"nonStreamingMembers": [
"beanStyleGetterMethodName": "getSubnetIds",
"beanStyleSetterMethodName": "setSubnetIds",
"c2jName": "SubnetIds",
"c2jShape": "StringList",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the subnets for VPC endpoint.</p>
This is a convenience that creates an instance of the {\@link List<String>\#.\Builder} avoiding the need to create one manually via {\@link List<String>\#.builder()}\n\nWhen the {\@link Consumer} completes, {\@link List<String>\#.\Builder\#build()} is called immediately and its result is passed to {\@link List\#subnetIds(List<String>)\}.\n@\param subnetIds a consumer that will call methods on {\@link List<String>\#.\Builder}\n@\return Returns a reference to this object so that method calls can be chained together.\n\n@see #subnetIds(List<String>)",
"deprecated": false,
"documentation": "<p>Specifies the subnets for VPC endpoint.</p>",
"endpointDiscoveryId": false,
"enumType": null,
"eventHeader": false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "subnetIds",
"fluentSetterDocumentation" : "Specifies the subnets for VPC endpoint.\n\n@returns Returns a reference to this object so that method calls can be chained together."
,
"fluentSetterMethodName" : "subnetIds",
"getterDocumentation" : "Specifies the subnets for VPC endpoint.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n\n@returns Specifies the subnets for VPC endpoint."
,
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SubnetIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SubnetIds",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the {\link String.Builder} avoiding the need to create one manually via {String#builder()}.\nWhen the {Consumer} completes, {String.Builder#build()} is called immediately and its result is passed to {member(String)}\n\n@returns Returns a reference to this object so
that method calls can be chained together.\n@see member(String)

"deprecated" : false,
"documentation" : "",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n@param member
The new value for the Member property for this object.\n@return Returns a reference to this object so that method
calls can be chained together. ",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of
the Member property for this object. ",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"sensitive" : false,
"setterDocumentation" : "Sets the value of the Member property for this object.\n@param member
The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
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"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"sensitive" : false,
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.",
"setterMethodName" : "setSubnetIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null,
},
"beanStyleGetterMethodName" : "getSecurityGroupIds",
"beanStyleSetterMethodName" : "setSecurityGroupIds",
"c2jName" : "SecurityGroupIds",
"c2jShape" : "StringList",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the {@link Consumer} completes, the method is called immediately and its result is passed to the method. This method returns a reference to this object so that method calls can be chained together.
@see #securityGroupIds(List<String>)",
"deprecated" : false,
"documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
"endpointDiscoveryId" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "securityGroupIds",
"fluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.
@see #securityGroupIds(List<String>)",
"getterDocumentation" : "<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return Specifies the security groups for VPC endpoint.
"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SecurityGroupIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SecurityGroupIds",
"uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultValue" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create
one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link
String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].
@see #member(String)"
  }
},
"implementation" : false,
"isQueryParameter" : false,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SecurityGroupIds",
"queryLocation" : null,
"queryLocationName" : null,
"queryStringLocation" : null,
"queryStringLocationName" : null,
"uriLocation" : null,
"uriLocationName" : null,
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultValue" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create
one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link
String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].
@see #member(String)"
  }
},
"implementation" : false,
"isQueryParameter" : false,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SecurityGroupIds",
"queryLocation" : null,
"queryLocationName" : null,
"queryStringLocation" : null,
"queryStringLocationName" : null,
"uriLocation" : null,
"uriLocationName" : null,
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultValue" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create
one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link
String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].
@see #member(String)"
  }
},
"implementation" : false,
"isQueryParameter" : false,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SecurityGroupIds",
"queryLocation" : null,
"queryLocationName" : null,
"queryStringLocation" : null,
"queryStringLocationName" : null,
"uriLocation" : null,
"uriLocationName" : null,
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false,
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"sensitive": false,
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null}
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>",
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "SecurityGroupIds",
"sensitive": false,
"setterDocumentation": "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint.",
"setterMethodName": "setSecurityGroupIds",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "securityGroupIds",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>",
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "securityGroupIds",
  "variableType": "java.util.List<String>",
  "documentation": "<p>Specifies the security groups for VPC endpoint.</p>",
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>",
},
"xmlNameSpaceUri": null
}]
,"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "VPCOptions",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {

"variableDeclarationType" : "VPCOptions",
"variableName" : "vpcOptions",
"variableType" : "VPCOptions",
"documentation" : null,
"simpleType" : "VPCOptions",
"variableSetterType" : "VPCOptions"
},
"wrapper" : false
},
"ValidationException" : {
"c2jName" : "ValidationException",
"customization" : {
  "artificialResultWrapper" : null,
  "skipGeneratingMarshaller" : false,
  "skipGeneratingModelClass" : false,
  "skipGeneratingUnmarshaller" : false,
  "staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"endpointDiscovery" : null,
"enums" : null,
"errorCode" : "ValidationException",
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 400,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ValidationException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "ValidationException",
  "variableName" : "validationException",
  "variableType" : "ValidationException",
  "documentation" : null,
  "simpleType" : "ValidationException",
  "variableSetterType" : "ValidationException"
The type of EBS volume, standard, gp2, or io1. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.

**enums**

```json
[{
  "name": "STANDARD",
  "value": "standard"
}, {
  "name": "GP2",
  "value": "gp2"
}, {
  "name": "IO1",
  "value": "io1"
}]
```

**errorCode**

null

**event**

false

**eventStream**

false

**explicitEventPayloadMember**

null

**hasHeaderMember**

false

**hasPayloadMember**

false

**hasStatusCodeMember**

false

**hasStreamingMember**

false

**httpStatusCode**

null

**marshaller**

null

**members**

[]

**membersAsMap**

{}

**nonStreamingMembers**

[]

**requestSignerAware**

false

**requestSignerClassFqcn**

null

**required**

null

**shapeName**

"VolumeType"

**simpleMethod**

false

**unmarshaller**

null

**flattened**

false

**resultWrapper**

null
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 * and limitations under the License.
 */

/**
 * Allows you to either upgrade your domain or perform an Upgrade eligibility check to a compatible Elasticsearch
 * version.
 *
 *
 * @param upgradeElasticsearchDomainRequest
 * Container for request parameters to <code>UpgradeElasticsearchDomain</code> operation.
 * @return A Java Future containing the result of the UpgradeElasticsearchDomain operation returned by the
 * service.<br/>
 * The CompletableFuture returned by this method can be completed exceptionally with the following
 * exceptions.
 * <ul>
 * <li>BaseException An error occurred while processing the request.</li>
 * <li>ResourceNotFoundException An exception for accessing or deleting a resource that does not exist.
 * Gives http status code of 400.</li>
 * <li>ResourceAlreadyExistsException An exception for creating a resource that already exists. Gives http
 * status code of 400.</li>
 * <li>DisabledOperationException An error occurred because the client wanted to access a not supported
 * operation. Gives http status code of 409.</li>
 * <li>ValidationException An exception for missing / invalid input fields. Gives http status code of 400.</li>
 * <li>InternalException The request processing has failed because of an unknown error, exception or failure
 * (the failure is internal to the service). Gives http status code of 500.</li>
 * <li>SdkException Base class for all exceptions that can be thrown by the SDK (both service and client).
 * Can be used for catch all scenarios.</li>
 * <li>SdkClientException If any client side error occurs such as an IO related failure, failure to get
 * credentials, etc.</li>
 * <li>ElasticsearchException Base class for all service exceptions. Unknown exceptions will be thrown as an
 * instance of this type.</li>
 * </ul>
 *
 * @sample ElasticsearchAsyncClient.UpgradeElasticsearchDomain
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/ElasticsearchAsyncClient.java
* /opt/ws_local/PERMITS_SQL/1070563500_1594719904.31/0/elasticsearch-2-4-1-sources-2-jar/software/amazon/awssdk/services/elasticsearch/DefaultElasticsearchAsyncClient.java
1.2228 neo4j-native 4.1.7

1.2228.1 Available under license:

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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JUnit

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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoDoFinallyFuseable.java
* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoDoFinallyFuseable.java
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* /opt/ws_local/PERMITS_SQL/1068271597_1594338417.24/0/reactor-core-3-3-2-release-sources-jar/reactor/core/publisher/MonoErrorSupplied.java

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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/*
* modified July 9, 1999 by mark gates <mgates@nlanr.net>
*       Dec 17, 1999
*
* renamed all functions and variables by prepending "gnu_
* removed/redid a bunch of stuff under the assumption we're
* using a modern standard C compiler.
* add #include <string.h> here for strncmp(). Originally
* it was included only under special conditions.
*
* $Id: gnu_getopt.c,v 1.1.1.1 2004/05/18 01:50:44 kgibbs Exp $*/

#include <stdio.h>
#include <stdlib.h>
#ifndef _MSC_VER /* Visual C++ doesn't have unistd.h */
    #include <unistd.h>
#else
    #include <string.h>
#endif

#ifndef _
/* This is for other GNU distributions with internationalized messages.
  When compiling libc, the _ macro is predefined. */
#ifndef HAVE_LIBINTL_H
    #include <libintl.h>
    #define _(msgid)gettext (msgid)
#else
    #define _(msgid)(msgid)
#endif
#endif

/* This version of `gnu_getopt' appears to the caller like standard
Unix `getopt' but it behaves differently for the user, since it
allows the user to intersperse the options with the other
arguments.

As `gnu_getopt' works, it permutes the elements of ARGV so that,
when it is done, all the options precede everything else. Thus
all application programs are extended to handle flexible argument order.
Setting the environment variable POSIXLY_CORRECT disables permutation. Then the behavior is completely standard.

GNU application programs can use a third alternative mode in which they can distinguish the relative order of options and other arguments. */

#include "gnu_getopt.h"

#ifdef __cplusplus
extern "C" { 
#endif

/* For communication from `gnu_getopt' to the caller. 
When `gnu_getopt' finds an option that takes an argument, 
the argument value is returned here. 
Also, when `ordering' is RETURN_IN_ORDER, 
each non-option ARGV-element is returned here. */

char *gnu_optarg = NULL;

/* Index in ARGV of the next element to be scanned. 
This is used for communication to and from the caller 
and for communication between successive calls to `gnu_getopt'. 

On entry to `gnu_getopt', zero means this is the first call; initialize. 

When `gnu_getopt' returns -1, this is the index of the first of the 
non-option elements that the caller should itself scan. 

Otherwise, `gnu_optind' communicates from one call to the next 
how much of ARGV has been scanned so far. */

/* 1003.2 says this must be 1 before any call. */
int gnu_optind = 1;

/* Formerly, initialization of gnu_getopt depended on gnu_optind==0, which 
causes problems with re-calling gnu_getopt as programs generally don't 
know that. */

int __gnu_getopt_initialized = 0;

/* The next char to be scanned in the option-element 
in which the last option character we returned was found. 
This allows us to pick up the scan where we left off. 

If this is zero, or a null string, it means resume the scan 
by advancing to the next ARGV-element. */
static char *nextchar;

/* Callers store zero here to inhibit the error message for unrecognized options. */

int gnu_opterr = 1;

/* Set to an option character which was unrecognized. This must be initialized on some systems to avoid linking in the system's own gnu_getopt implementation. */

int gnu_optopt = '?';

/* Describe how to deal with options that follow non-option ARGV-elements. */

If the caller did not specify anything, the default is REQUIRE_ORDER if the environment variable POSIXLY_CORRECT is defined, PERMUTE otherwise.

REQUIRE_ORDER means don't recognize them as options; stop option processing when the first non-option is seen. This is what Unix does. This mode of operation is selected by either setting the environment variable POSIXLY_CORRECT, or using `+' as the first character of the list of option characters.

PERMUTE is the default. We permute the contents of ARGV as we scan, so that eventually all the non-options are at the end. This allows options to be given in any order, even with programs that were not written to expect this.

RETURN_IN_ORDER is an option available to programs that were written to expect options and other ARGV-elements in any order and that care about the ordering of the two. We describe each non-option ARGV-element as if it were the argument of an option with character code 1. Using `-` as the first character of the list of option characters selects this mode of operation.

The special argument `--` forces an end of option-scanning regardless of the value of `ordering`. In the case of RETURN_IN_ORDER, only `--` can cause `gnu_getopt` to return -1 with `gnu_optind` != ARGC. */

static enum {
    REQUIRE_ORDER, PERMUTE, RETURN_IN_ORDER
} ordering;

/* Value of POSIXLY_CORRECT environment variable. */
static char *posixly_correct;

/* Avoid depending on library functions or files
whose names are inconsistent. */

static char *
my_index( const char* str, int chr ) {
    while ( *str ) {
        if ( *str == chr )
            return(char *) str;
        str++;
    }
    return 0;
}

/* Handle permutation of arguments. */

/* Describe the part of ARGV that contains non-options that have
been skipped. `first_nonopt' is the index in ARGV of the first of them;
`last_nonopt' is the index after the last of them. */

static int first_nonopt;
static int last_nonopt;

/* Exchange two adjacent subsequences of ARGV.
   One subsequence is elements [first_nonopt,last_nonopt)
   which contains all the non-options that have been skipped so far.
   The other is elements [last_nonopt,gnu_optind), which contains all
   the options processed since those non-options were skipped.

   `first_nonopt' and `last_nonopt' are relocated so that they describe
the new indices of the non-options in ARGV after they are moved. */

static void exchange( char **argv );

static void
exchange( char **argv ) {
    int bottom = first_nonopt;
    int middle = last_nonopt;
    int top = gnu_optind;
    char *tem;

    /* Exchange the shorter segment with the far end of the longer segment.
       That puts the shorter segment into the right place.
       It leaves the longer segment in the right place overall,
       but it consists of two parts that need to be swapped next. */
while ( top > middle && middle > bottom ) {
    if ( top - middle > middle - bottom ) {
      /* Bottom segment is the short one. */
      int len = middle - bottom;
      register int i;

      /* Swap it with the top part of the top segment. */
      for ( i = 0; i < len; i++ ) {
        tem = argv[bottom + i];
        argv[bottom + i] = argv[top - (middle - bottom) + i];
        argv[top - (middle - bottom) + i] = tem;
      }
      /* Exclude the moved bottom segment from further swapping. */
      top -= len;
    } else { /* Top segment is the short one. */
      int len = top - middle;
      register int i;

      /* Swap it with the bottom part of the bottom segment. */
      for ( i = 0; i < len; i++ ) {
        tem = argv[bottom + i];
        argv[bottom + i] = argv[middle + i];
        argv[middle + i] = tem;
      }
      /* Exclude the moved top segment from further swapping. */
      bottom += len;
    }

    /* Update records for the slots the non-options now occupy. */
    first_nonopt += (gnu_optind - last_nonopt);
    last_nonopt = gnu_optind;
  }

  /* Initialize the internal data when the first call is made. */
  static const char *
  _gnu_getopt_initialize( int argc,
                        char *const * argv,
                        const char *optstring );

  static const char *
  _gnu_getopt_initialize( int argc,
                        char *const * argv,
                        const char *optstring ) {
/* Start processing options with ARGV-element 1 (since ARGV-element 0
is the program name); the sequence of previously skipped
non-option ARGV-elements is empty. */

first_nonopt = last_nonopt = gnu_optind = 1;

nextchar = NULL;

posixly_correct = getenv("POSIXLY_CORRECT");

/* Determine how to handle the ordering of options and nonoptions. */

if ( optstring[0] == '-' ) {
  ordering = RETURN_IN_ORDER;
  ++optstring;
} else if ( optstring[0] == '+' ) {
  ordering = REQUIRE_ORDER;
  ++optstring;
} else if ( posixly_correct != NULL )
  ordering = REQUIRE_ORDER;
else
  ordering = PERMUTE;

return optstring;
}

/* Scan elements of ARGV (whose length is ARGC) for option characters
given in OPTSTRING.

If an element of ARGV starts with '-', and is not exactly "-" or "--",
then it is an option element. The characters of this element
(aside from the initial '-') are option characters. If `gnu_getopt'
is called repeatedly, it returns successively each of the option characters
from each of the option elements.

If `gnu_getopt' finds another option character, it returns that character,
updating `gnu_optind' and `nextchar' so that the next call to `gnu_getopt' can
resume the scan with the following option character or ARGV-element.

If there are no more option characters, `gnu_getopt' returns -1.
Then `gnu_optind' is the index in ARGV of the first ARGV-element
that is not an option. (The ARGV-elements have been permuted
so that those that are not options now come last.)

OPTSTRING is a string containing the legitimate option characters.
If an option character is seen that is not listed in OPTSTRING,
return '?' after printing an error message. If you set `gnu_opterr' to
zero, the error message is suppressed but we still return '?'.

If a char in OPTSTRING is followed by a colon, that means it wants an arg, so the following text in the same ARGV-element, or the text of the following ARGV-element, is returned in `gnu_optarg'. Two colons mean an option that wants an optional arg; if there is text in the current ARGV-element, it is returned in `gnu_optarg', otherwise `gnu_optarg' is set to zero.

If OPTSTRING starts with `-' or `+', it requests different methods of handling the non-option ARGV-elements.
See the comments about RETURN_IN_ORDER and REQUIRE_ORDER, above.

Long-named options begin with `--' instead of `-'.
Their names may be abbreviated as long as the abbreviation is unique or is an exact match for some defined option. If they have an argument, it follows the option name in the same ARGV-element, separated from the option name by a `=', or else the in next ARGV-element.
When `gnu_getopt' finds a long-named option, it returns 0 if that option's `flag' field is nonzero, the value of the option's `val' field if the `flag' field is zero.

The elements of ARGV aren't really const, because we permute them.
But we pretend they're const in the prototype to be compatible with other systems.

LONGOPTS is a vector of `struct option' terminated by an element containing a name which is zero.

LONGIND returns the index in LONGOPT of the long-named option found.
It is only valid when a long-named option has been found by the most recent call.

If LONG_ONLY is nonzero, `-.' as well as `--' can introduce long-named options. */

int
_gnu_getopt_internal( int argc,
                char *const *argv,
        const char *optstring,
        const struct option *longopts,
               int *longind,
               int long_only ) {
    gnu_optarg = NULL;

    if ( !_gnu_getopt_initialized || gnu_optind == 0 ) {
        optstring = _gnu_getopt_initialize (argc, argv, optstring);
        gnu_optind = 1;    /* Don't scan ARGV[0], the program name. */
        _gnu_getopt_initialized = 1;
    }
/* Test whether ARGV[gnu_optind] points to a non-option argument. 
   Either it does not have option syntax, or there is an environment flag 
   from the shell indicating it is not an option. The later information 
   is only used when the used in the GNU libc. */

#define NONOPTION_P (argv[gnu_optind][0] != '-' || argv[gnu_optind][1] == '0')

if ( nextchar == NULL || *nextchar == '0' ) {
  /* Advance to the next ARGV-element. */

  /* Give FIRST_NONOPT & LAST_NONOPT rational values if OPTIND has been 
     moved back by the user (who may also have changed the arguments). */
  if ( last_nonopt > gnu_optind )
    last_nonopt = gnu_optind;
  if ( first_nonopt > gnu_optind )
    first_nonopt = gnu_optind;

  if ( ordering == PERMUTE ) {
    /* If we have just processed some options following some non-options, 
       exchange them so that the options come first. */

    if ( first_nonopt != last_nonopt & last_nonopt != gnu_optind )
      exchange ((char **) argv);
    else if ( last_nonopt != gnu_optind )
      first_nonopt = gnu_optind;

    /* Skip any additional non-options 
       and extend the range of non-options previously skipped. */

    while ( gnu_optind < argc && NONOPTION_P )
      gnu_optind++;
    last_nonopt = gnu_optind;
  }

  /* The special ARGV-element `--' means premature end of options. 
     Skip it like a null option, 
     then exchange with previous non-options as if it were an option, 
     then skip everything else like a non-option. */

  if ( gnu_optind != argc && !strcmp (argv[gnu_optind], "--") ) {
    gnu_optind++;

    if ( first_nonopt != last_nonopt & last_nonopt != gnu_optind )
      exchange ((char **) argv);
    else if ( first_nonopt == last_nonopt )
      first_nonopt = gnu_optind;
    last_nonopt = argc;
gnu_optind = argc;
}

/* If we have done all the ARGV-elements, stop the scan
and back over any non-options that we skipped and permuted. */

if ( gnu_optind == argc ) {
    /* Set the next-arg-index to point at the non-options
        that we previously skipped, so the caller will digest them. */
    if ( first_nonopt != last_nonopt )
        gnu_optind = first_nonopt;
    return -1;
}

/* If we have come to a non-option and did not permute it,
either stop the scan or describe it to the caller and pass it by. */

if ( NONOPTION_P ) {
    if ( ordering == REQUIRE_ORDER )
        return -1;
    gnu_optarg = argv[gnu_optind++];
    return 1;
}

/* We have found another option-ARGV-element.
Skip the initial punctuation. */

nextchar = (argv[gnu_optind] + 1
             + (longopts != NULL && argv[gnu_optind][1] == '-'));

/* Decode the current option-ARGV-element. */

/* Check whether the ARGV-element is a long option.
   If long_only and the ARGV-element has the form "-f",
   where f is a valid short option, don't consider it an abbreviated form of
   a long option that starts with f. Otherwise there would be no
   way to give the -f short option.

   On the other hand, if there's a long option "fubar" and
   the ARGV-element is "-fu", do consider that an abbreviation of
   the long option, just like "--fu", and not "-f" with arg 'u'.

   This distinction seems to be the most useful approach. */

if ( longopts != NULL
     && argv[gnu_optind][1] == '-')

& (argv[gnu_optind][1] == '-')
   || (long_only & & (argv[gnu_optind][2] || !my_index (optstring, argv[gnu_optind][1]))) ) )
   char *nameend;
   const struct option *p;
   const struct option *pfound = NULL;
   int exact = 0;
   int ambig = 0;
   int indfound = -1;
   int option_index;

   for ( nameend = nextchar; *nameend && *nameend != '='; nameend++ )
      /* Do nothing. */ ;

   /* Test all long options for either exact match
      or abbreviated matches. */
   for ( p = longopts, option_index = 0; p->name; p++, option_index++ )
      if ( !strncmp (p->name, nextchar, nameend - nextchar) )
         if ( (unsigned int) (nameend - nextchar)
              == (unsigned int) strlen (p->name) )
            /* Exact match found. */
            pfound = p;
            indfound = option_index;
            exact = 1;
            break;
         } else if ( pfound == NULL )
            /* First nonexact match found. */
            pfound = p;
            indfound = option_index;
         } else
            /* Second or later nonexact match found. */
            ambig = 1;
         }

   if ( ambig & & 'exact' )
      if ( gnu_opterr )
         fprintf (stderr, _("%s: option `%s' is ambiguous\n"),
              argv[0], argv[gnu_optind]);
         nextchar += strlen (nextchar);
         gnu_optind++;
         gnu_optopt = 0;
         return '?';
      }

   if ( pfound != NULL )
      option_index = indfound;
      gnu_optind++;
      if ( *nameend )
         /* Don't test has_arg with >, because some C compilers don't
allow it to be used on enums. */
if ( pfound->has_arg )
gnu_optarg = nameend + 1;
else {
  if ( gnu_opterr ) {
    if ( argv[gnu_optind - 1][1] == '-' ) {
      /* --option */
      fprintf (stderr,
        "(%s: option `--%s' doesn't allow an argument\n"),
        argv[0], pfound->name);
    } else {
      /* +option or -option */
      fprintf (stderr,
        "(%s: option `%c%s' doesn't allow an argument\n"),
        argv[0], argv[gnu_optind - 1][0], pfound->name);
    }
  } else if ( pfound->has_arg == 1 ) {
    if ( gnu_optind < argc )
      gnu_optarg = argv[gnu_optind++];
    else {
      if ( gnu_opterr )
        fprintf (stderr,
          "(%s: option `%s' requires an argument\n"),
          argv[0], argv[gnu_optind - 1]);
      nextchar += strlen (nextchar);
      gnu_optopt = pfound->val;
      return optstring[0] == ':' ? ':' : '?';
    }
  } else if ( pfound->has_arg == 0 ) {
    if ( gnu_optind < argc )
      gnu_optarg = argv[gnu_optind++];
    else {
      if ( gnu_opterr )
        fprintf (stderr,
          "(%s: option `%s' doesn't allow an argument\n"),
          argv[0], argv[gnu_optind - 1][0], pfound->name);
      nextchar += strlen (nextchar);
      gnu_optopt = pfound->val;
      return '?';
    }
  } else if ( NULL )
    *longind = option_index;
  if ( pfound->flag ) {
    *(pfound->flag) = pfound->val;
    return 0;
  }
  return pfound->val;
}

/* Can't find it as a long option. If this is not gnu_getopt_long_only, or the option starts with '-' or is not a valid short
option, then it's an error.
Otherwise interpret it as a short option. */
if ( !long_only || argv[gnu_optind][1] == '.'
   || my_index (optstring, *nextchar) == NULL ) {
   if ( gnu_opterr ) { /* --option */
      if ( argv[gnu_optind][1] == '.'
           /* --option */
           fprintf (stderr, (_("%s: unrecognized option `--%s'\n")),
                    argv[0], nextchar);
      else /* +option or -option */
         fprintf (stderr, (_("%s: unrecognized option `%c%s'\n")),
                    argv[0], argv[gnu_optind][0], nextchar);
   }
   nextchar = (char *) "";
   gnu_optind++;
   gnu_optopt = 0;
   return '?';
}
/* Look at and handle the next short option-character. */
{
   char c = *nextchar++;
   char *temp = my_index (optstring, c);

   /* Increment `gnu_optind' when we start to process its last character. */
   if ( *nextchar == '\0' )
      ++gnu_optind;
   if ( temp == NULL || c == ':' ) {
      if ( gnu_opterr ) {
         if ( posixly_correct ) /* 1003.2 specifies the format of this message. */
            fprintf (stderr, (_("%s: illegal option -- %c\n")),
                   argv[0], c);
         else
            fprintf (stderr, (_("%s: invalid option -- %c\n")),
                   argv[0], c);
      }
      gnu_optopt = c;
      return '?';
   }
   /* Convenience. Treat POSIX -W foo same as long option --foo */
   if ( temp[0] == '\W' && temp[1] == '\0' ) {  
      char *nameend;
      const struct option *p;
      }
const struct option *pfound = NULL;
int exact = 0;
int ambig = 0;
int indfound = 0;
int option_index;

/* This is an option that requires an argument. */
if ( *nextchar != '\'0' ) { 
  gnu_optarg = nextchar;
  /* If we end this ARGV-element by taking the rest as an arg, 
   we must advance to the next element now. */
  gnu_optind++;
} else if ( gnu_optind == argc ) { 
  if ( gnu_optopt ) { 
    /* 1003.2 specifies the format of this message. */
    fprintf (stderr, _("%s: option requires an argument -- %c\n"), 
            argv[0], c);
  }
  gnu_optopt = c;
  if ( optstring[0] == ':' )
    c = ':';
  else
    c = '?';
  return c;
} else 
  /* We already incremented `gnu_optind' once;
   increment it again when taking next ARGV-elt as argument. */
  gnu_optarg = argv[gnu_optind++];

/* gnu_optarg is now the argument, see if it's in the 
table of longopts. */

for ( nextchar = nameend = gnu_optarg; *nameend && *nameend != '='; nameend++ ) 
  /* Do nothing. */

/* Test all long options for either exact match 
or abbreviated matches. */
for ( p = longopts, option_index = 0; p->name; p++, option_index++ )
  if (!strncmp (p->name, nextchar, nameend - nextchar) ) { 
    if ( (unsigned int) (nameend - nextchar) == strlen (p->name) ) {
      /* Exact match found. */
      pfound = p;
      indfound = option_index;
      exact = 1;
      break;
    } else if ( pfound == NULL ) {
      /* First nonexact match found. */
      pfound = p;
indfound = option_index;
} else
    /* Second or later nonexact match found. */
    ambig = 1;
}

if ( ambig && !exact ) {
    if ( gnu_opterr )
        fprintf (stderr, _("%s: option `-W %s' is ambiguous\n"),
            argv[0], argv[gnu_optind]);
    nextchar += strlen (nextchar);
    gnu_optind++;
    return '?';
}

if ( pfound != NULL ) {
    option_index = indfound;
    if ( *nameend ) {
        /* Don't test has_arg with >, because some C compilers don't
         * allow it to be used on enums. */
        if ( pfound->has_arg )
            gnu_optarg = nameend + 1;
        else {
            if ( gnu_opterr )
                fprintf (stderr, _("%s: option `-W %s' doesn't allow an argument\n"),
                    argv[0], pfound->name);
            nextchar += strlen (nextchar);
            return '?';
        }
    } else if ( pfound->has_arg == 1 ) {
        if ( gnu_optind < argc )
            gnu_optarg = argv[gnu_optind++];
        else {
            if ( gnu_opterr )
                fprintf (stderr,
                    _("%s: option `%s' requires an argument\n"),
                        argv[0], argv[gnu_optind - 1]);
            nextchar += strlen (nextchar);
            return optstring[0] == ':' ? ':' : '?';
        }
    }

    nextchar += strlen (nextchar);
    if ( longind != NULL )
        *longind = option_index;
    if ( pfound->flag )
        *(pfound->flag) = pfound->val;
    return 0;
}
return pfound->val;
}

nextchar = NULL;
return 'W'; /* Let the application handle it. */
}

if ( temp[1] == ':' ) {
  if ( temp[2] == ':' ) {
    /* This is an option that accepts an argument optionally. */
    if ( *nextchar != '\0' ) {
      gnu_optarg = nextchar;
      gnu_optind++;
    } else
      gnu_optarg = NULL;
    nextchar = NULL;
  } else {
    /* This is an option that requires an argument. */
    if ( *nextchar != '\0' ) {
      gnu_optarg = nextchar;
      /* If we end this ARGV-element by taking the rest as an arg,
       * we must advance to the next element now. */
      gnu_optind++;
    } else if ( gnu_optind == argc ) {
      if ( gnu_opterr ) {
        /* 1003.2 specifies the format of this message. */
        fprintf (stderr,
            "(%s: option requires an argument -- %c\n"),
            argv[0], c);
      }
      gnu_optopt = c;
      if ( optstring[0] == ':'
           c = ':';
      else
        c = '?';
    } else
      /* We already incremented `gnu_optind' once;
       * increment it again when taking next ARGV-elt as argument. */
      gnu_optarg = argv[gnu_optind++];
    nextchar = NULL;
  }
}

return c;
}

int
gnu_getopt ( int argc,
      char *const *argv,
      const char *optstring ) {

return _gnu_getopt_internal (argc, argv, optstring,
  (const struct option *) 0,
  (int *) 0,
  0);
}

#ifdef __cplusplus
} /* end extern "C" */
#endif

#ifdef TEST

/* Compile with -DTEST to make an executable for use in testing
   the above definition of `gnu_getopt'. */

int
main (argc, argv)
int argc;
char **argv;
{
  int c;
  int digit_optind = 0;

  while ( 1 ) {
    int this_option_optind = gnu_optind ? gnu_optind : 1;

    c = gnu_getopt (argc, argv, "abc:d:0123456789");
    if ( c == -1 )
      break;

    switch ( c ) {
      case '0':
      case '1':
      case '2':
      case '3':
      case '4':
      case '5':
      case '6':
      case '7':
      case '8':
      case '9':
      if ( digit_optind != 0 && digit_optind != this_option_optind )
        fprintf ( stderr, "digits occur in two different argv-elements.\n" );
      digit_optind = this_option_optind;
      printf ( stderr, "option \%c\n", c );
      break;
    }
  }

#endif
case 'a':
    fprintf(stderr, "option a\n");
    break;

case 'b':
    fprintf(stderr, "option b\n");
    break;

case 'c':
    fprintf(stderr, "option c with value \"%s\", gnu_optarg);  
    break;

case '?':
    break;

default:
    fprintf(stderr, "?? gnu_getopt returned character code 0%o ??\n", c);
    }
    }

if ( gnu_optind < argc ) {
    fprintf(stderr, "non-option ARGV-elements: ");
    while ( gnu_optind < argc )
        fprintf(stderr, "%s ", argv[gnu_optind++]);
    fprintf(stderr, "\n");
}

exit(0);
}

#endif /* TEST */

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Version 2.1, February 1999

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* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1.zip/azure-mgmt-compute-12.0.0/azure/mgmt/compute/v2018_06_01/models/_models.py
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* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1.zip/azure-mgmt-compute-12.0.0/azure/mgmt/compute/v2018_06_01/operations/virtual_machine_sizes_operations.py
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* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1.zip/azure-mgmt-compute-12.0.0/azure/mgmt/compute/v2019_07_01/operations/_compute_management_client_enums.py
* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1.zip/azure-mgmt-compute-12.0.0/azure/mgmt/compute/v2018_04_01/operations/proximity_placement_groups_operations.py
* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1.zip/azure-mgmt-compute-12.0.0/azure/mgmt/compute/v2019_12_01/configuration.py
* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1.zip/azure-mgmt-compute-12.0.0/azure/mgmt/compute/v2019_07_01/operations/snapshots_operations.py
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* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1-azure-mgmt-compute-12.0.0/azure/mgmt/compute/v2019_03_01/operations/_virtual_machine_sizes_operations.py
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* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1-azure-mgmt-compute-12.0.0/azure/mgmt/compute/v2016_04_30_preview/operations/_virtual_machine_images_operations.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: azure-mgmt-compute
Version: 12.0.0
Summary: Microsoft Azure Compute Management Client Library for Python
Home-page: https://github.com/Azure/azure-sdk-for-python
Author: Microsoft Corporation
Author-email: azpsdkhelp@microsoft.com
License: MIT License
Description: # Microsoft Azure SDK for Python

This is the Microsoft Azure Compute Management Client Library. This package has been tested with Python 2.7, 3.5, 3.6, 3.7 and 3.8.

For a more complete view of Azure libraries, see the [Github repo](https://github.com/Azure/azure-sdk-for-python/)
# Usage

For code examples, see [Compute Management](https://docs.microsoft.com/python/api/overview/azure/virtualmachines) on docs.microsoft.com.

# Provide Feedback

If you encounter any bugs or have suggestions, please file an issue in the [Issues](https://github.com/Azure/azure-sdk-for-python/issues) section of the project.

![Impressions](https://azure-sdk-impressions.azurewebsites.net/api/impressions/azure-sdk-for-python%2Fazure-mgmt-compute%2FREADME.png)

# Release History

## 12.0.0 (2020-03-23)

**Features**

- Model VirtualMachineScaleSetInstanceView has a new parameter orchestration_services
- Added operation VirtualMachineScaleSetsOperations.set_orchestration_service_state
- Added operation group SshPublicKeysOperations

**Breaking changes**

- Model AvailabilitySetUpdate no longer has parameter id
- Model AvailabilitySetUpdate no longer has parameter name
- Model AvailabilitySetUpdate no longer has parameter type
- Model VirtualMachineScaleSetUpdate no longer has parameter id
- Model VirtualMachineScaleSetUpdate no longer has parameter name
- Model VirtualMachineScaleSetUpdate no longer has parameter type
- Model DedicatedHostGroupUpdate no longer has parameter id
- Model DedicatedHostGroupUpdate no longer has parameter name
- Model DedicatedHostGroupUpdate no longer has parameter type
- Model VirtualMachineUpdate no longer has parameter id
- Model VirtualMachineUpdate no longer has parameter name
- Model VirtualMachineUpdate no longer has parameter type
- Model DedicatedHostUpdate no longer has parameter id
- Model DedicatedHostUpdate no longer has parameter name
- Model DedicatedHostUpdate no longer has parameter type
- Model ImageUpdate no longer has parameter id
- Model ImageUpdate no longer has parameter name
- Model ImageUpdate no longer has parameter type
- Model VirtualMachineExtensionUpdate no longer has parameter virtual_machine_extension_update_type
- Model VirtualMachineExtensionUpdate no longer has parameter id
- Model VirtualMachineExtensionUpdate no longer has parameter name
- Model ProximityPlacementGroupUpdate has a new signature
- Model UpdateResource has a new signature

## 11.1.0 (2020-03-09)

**Features**

- Operation VirtualMachineImagesOperations.list has a new parameter $expand

**Bugfixes**

- remove not-working $filter in Operation VirtualMachineImagesOperations.list

## 11.0.0 (2020-02-27)

**Features**

- Model AvailabilitySetUpdate has a new parameter name
- Model AvailabilitySetUpdate has a new parameter id
- Model AvailabilitySetUpdate has a new parameter type
- Model DedicatedHostGroupUpdate has a new parameter name
- Model DedicatedHostGroupUpdate has a new parameter id
- Model DedicatedHostGroupUpdate has a new parameter type
- Model ImageReference has a new parameter exact_version
- Model SnapshotUpdate has a new parameter encryption
- Model ProximityPlacementGroup has a new parameter colocation_status
- Model ImageUpdate has a new parameter name
- Model ImageUpdate has a new parameter id
- Model ImageUpdate has a new parameter type
- Model VirtualMachineExtensionUpdate has a new parameter name
- Model VirtualMachineExtensionUpdate has a new parameter id
- Model VirtualMachineExtensionUpdate has a new parameter virtual_machine_extension_update_type
- Model Disk has a new parameter share_info
- Model Disk has a new parameter disk_mbps_read_only
- Model Disk has a new parameter managed_by_extended
- Model Disk has a new parameter max_shares
- Model Disk has a new parameter disk_iops_read_only
- Model CreationData has a new parameter gallery_image_reference
- Model DiskUpdate has a new parameter max_shares
- Model DiskUpdate has a new parameter encryption
- Model DiskUpdate has a new parameter disk_mbps_read_only
- Model DiskUpdate has a new parameter disk_iops_read_only
- Model VirtualMachineScaleSetUpdate has a new parameter name
- Model VirtualMachineScaleSetUpdate has a new parameter id
- Model VirtualMachineScaleSetUpdate has a new parameter type
**Breaking changes**

- Model AutomaticRepairsPolicy no longer has parameter max_instance_repairs_percent
- Model ProximityPlacementGroupUpdate has a new signature
- Model UpdateResource has a new signature

## 10.0.0 (2019-11-18)

**Features**

- Model VirtualMachineScaleSetUpdate has a new parameter
  proximity_placement_group
- Enum VirtualMachinePriorityTypes has new value Spot

**Breaking changes**

- Operation ProximityPlacementGroupsOperations.get has a new signature

## 9.0.0 (2019-10-22)

**Features**

- Model VirtualMachineScaleSetUpdateNetworkProfile has a new parameter
  health_probe
- Model VirtualMachineScaleSetUpdate has a new parameter
  do_not_run_extensions_on_overprovisioned_vms
- Model VirtualMachineScaleSetUpdate has a new parameter
  automatic_repairs_policy
- Model VirtualMachineScaleSetManagedDiskParameters has a new parameter
  disk_encryption_set
- Model ImageDataDisk has a new parameter disk_encryption_set
- Model VirtualMachineScaleSet has a new parameter
  automatic_repairs_policy
- Model ImageOSDisk has a new parameter disk_encryption_set
- Model ManagedDiskParameters has a new parameter disk_encryption_set
- Model Snapshot has a new parameter encryption
- Model VirtualMachineScaleSetDataDisk has a new parameter disk讀取 _write
- Model VirtualMachineScaleSetDataDisk has a new parameter disk_iops_read_write
- Model Disk has a new parameter encryption
- Model VirtualMachineScaleSetPublicIPAddressConfiguration has a new parameter public_ip_address_version
- Model DataDisk has a new parameter disk讀取 _write
- Model DataDisk has a new parameter disk_iops_read_write
- Model OSProfile has a new parameter require_guest_provision_signal
- Added operation VirtualMachinesOperations.reapply
- Added operation group DiskEncryptionSetsOperations
- Added operation group VirtualMachineScaleSetVMExtensionsOperations

**Breaking changes**

- Operation VirtualMachinesOperations.list_all has a new signature
- Operation ResourceSkusOperations.list has a new signature

## 8.0.0 (2019-09-12)

**Note**

- Compute API version default is now 2019-07-01
- New disks version 2019-03-01
- New galleries version 2019-07-01

**Features**

- Model GalleryImageVersionStorageProfile has a new parameter source
- Model GalleryDiskImage has a new parameter source
- Model Snapshot has new parameters: disk_size_bytes, unique_id, incremental
- Model EncryptionSettingsCollection has a new parameter encryption_settings_version
- Model CreationData has new parameters: source_unique_id, upload_size_bytes

**Breaking Changes**

- Model GalleryImageVersionPublishingProfile no longer has parameter source
## 7.0.0 (2019-08-27)

**Features**

- Model VirtualMachineScaleSetUpdateVMProfile has a new parameter `scheduled_events_profile`
- Model VirtualMachineScaleSetUpdateVMProfile has a new parameter `billing_profile`
- Model VirtualMachine has a new parameter `virtual_machine_scale_set`
- Model VirtualMachine has a new parameter `priority`
- Model VirtualMachine has a new parameter `billing_profile`
- Model VirtualMachine has a new parameter `eviction_policy`
- Model VirtualMachineScaleSetVMProfile has a new parameter `scheduled_events_profile`
- Model VirtualMachineScaleSetVMProfile has a new parameter `billing_profile`
- Model VirtualMachineImage has a new parameter `hyper_vgeneration`
- Model VirtualMachineUpdate has a new parameter `virtual_machine_scale_set`
- Model VirtualMachineUpdate has a new parameter `priority`
- Model VirtualMachineUpdate has a new parameter `billing_profile`
- Model VirtualMachineUpdate has a new parameter `eviction_policy`

**Breaking changes**

- Operation VirtualMachineScaleSetVMsOperations.get has a new signature

## 6.0.0 (2019-07-20)

**Features**

- Model VirtualMachine has a new parameter `host`
- Model VirtualMachineUpdate has a new parameter `host`
- Model VirtualMachineInstanceView has a new parameter `hyper_vgeneration`
- Added operation group GalleryApplicationVersionsOperations
- Added operation group GalleryApplicationsOperations
- Added operation group DedicatedHostsOperations
- Added operation group DedicatedHostGroupsOperations

**Breaking changes**

- Model GalleryArtifactPublishingProfileBase has a new signature

**General Breaking changes**
This version uses a next-generation code generator that might introduce breaking changes if you were importing from the v20xx_yy_zz API folders. In summary, some modules were incorrectly visible/importable and have been renamed. This fixed several issues caused by usage of classes that were not supposed to be used in the first place.

- ComputeManagementClient cannot be imported from `azure.mgmt.compute.v20xx_yy_zz.compute_management_client` anymore (import from `azure.mgmt.compute.v20xx_yy_zz` works like before)
- ComputeManagementClientConfiguration import has been moved from `azure.mgmt.compute.v20xx_yy_zz.compute_management_client` to `azure.mgmt.compute.v20xx_yy_zz`
- A model `MyClass` from a "models" sub-module cannot be imported anymore using `azure.mgmt.compute.v20xx_yy_zz.models.my_class` (import from `azure.mgmt.compute.v20xx_yy_zz.models` works like before)
- An operation class `MyClassOperations` from an `operations` sub-module cannot be imported anymore using `azure.mgmt.compute.v20xx_yy_zz.operations.my_class_operations` (import from `azure.mgmt.compute.v20xx_yy_zz.operations` works like before)

Last but not least, HTTP connection pooling is now enabled by default. You should always use a client as a context manager, or call close(), or use no more than one client per process.

**Features**

- Model ImageUpdate has a new parameter hyper_vgeneration
- Model Image has a new parameter hyper_vgeneration
- Model AvailabilitySet has a new parameter proximity_placement_group
- Model VirtualMachine has a new parameter proximity_placement_group
- Model VirtualMachineUpdate has a new parameter proximity_placement_group
- Model VirtualMachineScaleSet has a new parameter proximity_placement_group
- Model VirtualMachineScaleSet has a new parameter additional_capabilities
- Model VirtualMachineScaleSetUpdate has a new parameter additional_capabilities
- Model AvailabilitySetUpdate has a new parameter proximity_placement_group
- Added operation group ProximityPlacementGroupsOperations
- Model DataDisk has a new parameter to_be_detached
- Model ResourceSkuLocationInfo has a new output zone_details

**Breaking changes**

- Model VirtualMachineScaleSetVMProfile no longer has parameter additional_capabilities
- Latest version of disks/snapshot renamed the enum StorageAccountTypes to DiskStorageAccountTypes
- images.create_or_update requires hyper_vgeneration parameter if disk is OS type

## 4.6.2 (2019-04-22)

**Bugfix**

- Revert "images" API version introduced in 4.6.0 from 2019-03-01 to 2018-10-01 for backward compatibility #4891

## 4.6.1 (2019-04-18)

**Bugfixes**

- Make enum declarations in Compute package consistent, for the sake of code inspection.

## 4.6.0 (2019-04-12)

**Features**

- Model VirtualMachineScaleSet has a new parameter do_not_run_extensions_on_overprovisioned_vms
- Model VirtualMachineScaleSetVM has a new parameter network_profile_configuration
- Model VirtualMachineScaleSetVM has a new parameter protection_policy
- Model VirtualMachineScaleSetVM has a new parameter model_definition_applied
- Added operation VirtualMachineScaleSetsOperations.convert_to_single_placement_group
- Operation VirtualMachineScaleSetVMsOperations.power_off has a new signature and can now skip_shutdown
- Operation VirtualMachinesOperations.power_off has a new signature and can now skip_shutdown
- Operation VirtualMachineScaleSetsOperations.power_off has a new signature and can now skip_shutdown

## 4.5.1 (2019-03-29)
**Bugfixes**

- Fix regression in direct import from models

## 4.5.0 (2019-03-28)

**New version of Managed Disks**

- Disks/Snapshots have a new optional property HyperVGeneration which may be set to V1 or V2.
- EncryptionSettings on a disk are now a collection instead of a single value. This allows multiple volumes on an encrypted disk.
- There is a new CreateOption (Upload) for disks. To upload disks customers

> - PUT a disk with CreateOption.Upload.
> - Use GrantAccess API with AccessLevel.Write to get a write SAS to the disk. This is a new access level and it can only be used when uploading to a new disk. Customers can then use storage API to upload the bits for the disk.
> - There are new DiskStates (DiskState.ReadyToUpload and DiskState.ActiveUpload) that are associated with the upload process.

## 4.4.0 (2018-01-04)

**Features**

- Model VirtualMachineScaleSetExtension has a new parameter provision_after_extensions
- Operation VirtualMachineScaleSetVMsOperations.reimage has a new parameter temp_disk
- Operation VirtualMachineScaleSetsOperations.reimage has a new parameter temp_disk
- Added operation VirtualMachinesOperations.reimage

## 4.3.1 (2018-10-15)

**Bugfix**

- Fix sdist broken in 4.3.0. No code change.

## 4.3.0 (2018-10-02)

**Note**

- Compute API version default is now 2018-10-01
**Features/BreakingChanges**

- This version updates the access to properties related to automatic OS upgrade introduced in 4.0.0

## 4.2.0 (2018-09-25)

**Features**

- Model OSEDisk has a new parameter `diff_disk_settings`
- Model BootDiagnosticsInstanceView has a new parameter `status`
- Model VirtualMachineScaleSetOSDisk has a new parameter `diff_disk_settings`
- Added operation `VirtualMachinesOperations.list_by_location`

**Note**

- `azure-mgmt-nspkg` is not installed anymore on Python 3 (PEP420-based namespace package)

## 4.1.0 (2018-09-12)

2018-06-01 for 'disks' and 'snapshots' (new default)

**Features**

- Model DiskUpdate has a new parameter `disk_iops_read_write`
- Model DiskUpdate has a new parameter `disk_mbps_read_write`
- Model VirtualMachineUpdate has a new parameter `additional_capabilities` (ultraSSDEnabled attribute)
- Model VirtualMachineScaleSetVM has a new parameter `additional_capabilities` (ultraSSDEnabled attribute)
- Model VirtualMachineScaleSetPublicIPAddressConfiguration has a new parameter `public_ip_prefix`
- Model Disk has a new parameter `disk_iops_read_write`
- Model Disk has a new parameter `disk_mbps_read_write`
- Model VirtualMachineScaleSetVMProfile has a new parameter `additional_capabilities` (ultraSSDEnabled attribute)
- Model VirtualMachine has a new parameter `additional_capabilities` (ultraSSDEnabled attribute)
- Added operation `VirtualMachineScaleSetRollingUpgradesOperations.start_extension_upgrade`
- New enum value `UltraSSD_LRS` for `StorageAccountTypes`

## 4.0.1 (2018-07-23)

**Bugfix**
- Fix incorrect import from azure.mgmt.compute.models

## 4.0.0 (2018-07-20)

**Features**

- Model VirtualMachineScaleSetIdentity has a new parameter `user_assigned_identities`
- Model VirtualMachineScaleSetIPConfiguration has a new parameter `application_security_groups`
- Model VirtualMachineScaleSetUpdateIPConfiguration has a new parameter `application_security_groups`
- Model VirtualMachineIdentity has a new parameter `user_assigned_identities`
- Model LinuxConfiguration has a new parameter `provision_vm_agent`
- Model OSProfile has a new parameter `allow_extension_operations`
- Added operation group GalleryImagesOperations
- Added operation group GalleryImageVersionsOperations
- Added operation group GalleriesOperations
- Model UpgradeOperationHistoricalStatusInfoProperties has a new parameter `rollback_info`
- Model UpgradePolicy has a new parameter `auto_os_upgrade_policy`
- Added operation AvailabilitySetsOperations.list_by_subscription

**Breaking changes**

- Model VirtualMachineScaleSetIdentity no longer has parameter `identity_ids`
- Model VirtualMachineScaleSetOSDisk no longer has parameter `disk_size_gb`
- Model VirtualMachineScaleSetVM no longer has parameter `zones`
- Model VirtualMachineScaleSetUpdateOSDisk no longer has parameter `disk_size_gb`
- Model VirtualMachineIdentity no longer has parameter `identity_ids`

New default API Version is now 2018-06-01

## 4.0.0rc2 (2018-04-17)

**Features**

- All clients now support Azure profiles.
- Add update operation to VirtualMachineExtension operations (all ApiVersions)
- Add get_extensions operation to VirtualMachine operations (all ApiVersions)
- Support eviction policy for virtual machines inside a low priority
scale set (2017-12-01)
- Add get_os_upgrade_history to VMSS operations (2017-12-01)

**Bugfixes**

- Compatibility of the sdist with wheel 0.31.0
- Fix some invalid models in Python 3 (introduced in 4.0.0rc1)

## 4.0.0rc1 (2018-03-21)

**General Breaking changes**

This version uses a next-generation code generator that *might* introduce breaking changes.

- Model signatures now use only keyword-argument syntax. All positional arguments must be re-written as keyword-arguments. To keep auto-completion in most cases, models are now generated for Python 2 and Python 3. Python 3 uses the "**" syntax for keyword-only arguments.

- Enum types now use the "str" mixin (class AzureEnum(str, Enum)) to improve the behavior when unrecognized enum values are encountered. While this is not a breaking change, the distinctions are important, and are documented here:

  <https://docs.python.org/3/library/enum.html#others>

  At a glance:
  - "is" should not be used at all.
  - "format" will return the string value, where "%s" string formatting will return 'NameOfEnum.stringvalue'. Format syntax should be prefered.

- New Long Running Operation:
  - Return type changes from `msrestazure.azure_operation.AzureOperationPoller` to `msrest.polling.LROPoller`. External API is the same.
  - Return type is now **always** a `msrest.polling.LROPoller`, regardless of the optional parameters used.
  - The behavior has changed when using `raw=True`. Instead of returning the initial call result as `ClientRawResponse`, without polling, now this returns an LROPoller. After polling, the final resource will be returned as a `ClientRawResponse`.
  - New `polling` parameter. The default behavior is `Polling=True` which will poll using ARM algorithm. When `Polling=False`, the response of the initial call will be returned without polling.
  - `polling` parameter accepts instances of subclasses of `msrest.polling.PollingMethod`.
  - `add_done_callback` will no longer raise if called after polling is finished, but will instead execute the callback right away.
**Compute features**

- Support zone resilient for image/snapshots (new ApiVersion 2018-04-01)
- Add "operations" operation group
- Add availability_set.update
- Add images.update
- Add virtual_machine.update

## 3.1.0rc3 (2018-11-01)

**Features**

- Add VirtualMachineScaleSetNetworkConfiguration -> enable_ip_forwarding
- Add VirtualMachineScaleSetUpdateNetworkConfiguration -> enable_ip_forwarding
- Add VirtualMachineScaleSetVMProfile -> priority
- Add ApiVersion 2017-12-01 of virtual_machine_run_commands (new default)

## 3.1.0rc2 (2017-12-14)

**Features**

- Add User Assigned Identity parameters to VM/VMSS creation

**Bugfixes**

- Add RestrictionInfo to SKUs list (2017-09-01)
- Restore virtual_machines.run_commands (broken in rc1)

## 3.1.0rc1 (2017-11-27)

**Disclaimer**

This version supports Azure Profile. Meaning, you can specify specific API versions to support for each operation groups.

The default API versions of this package are now: - 2017-03-30 for 'disks', 'virtual_machine_run_commands' and 'snapshots' - 2017-09-01 for 'resource_skus' - 2017-12-01 for everything else

**Python features**

- ComputeManagementClient has now a "profile" parameter, which is a dict from operation groups name to API version
- Operation groups now have access to their own models. For instance, assuming you have variable called "client", you can access the models for this operations groups (according to your loaded profiles) using `client.virtual_machines.models`
- azure.mgmt.compute.models is deprecated. See <https://aka.ms/pysdkmodels> for details.

**Azure features**

- `resource_skus` has improved `location_info` field

## 3.0.1 (2017-09-26)

**Bugfix**

- Add missing virtual_machine_scale_set_rolling_upgrades operation group alias

## 3.0.0 (2017-09-26)

**Features**

- Availability Zones
- VMSS Rolling upgrade / patch / health status
- VM instance view APIs

**Breaking changes**

- "azure.mgmt.compute.compute" namespace is now simply "azure.mgmt.compute". If you were already using "azure.mgmt.compute" before, your code should still work exactly the same.
- ContainerService has now been removed and exported in azure-mgmt-containerservice

## 2.1.0 (2017-07-19)

**Features in 2017-03-30**

- Expose 'forceUpdateTag' to ensure extension gets reinstalled even there are no configuration change.

## 2.0.0 (2017-06-29)

**Features**

Compute default Api Version is now 2017-03-30.
New operation groups:

- resources_skus
- virtual_machine_scale_set_extensions
- virtual_machine_run_commands

New methods in VM:

- perform_maintenance
- run_command

Several improvements and modifications in Managed Disks.

**Breaking changes**

- ContainerService: fixed typo in class name
  (ContainerServiceOchestratorTypes is now ContainerServiceOrchestratorTypes)
- Compute: breaking changes in Managed Disk API:
  - Managed field removed from Create AV Set API
  - Account Type replaced with SKU in PUT and GET Managed Disk
    Create API
  - OwnerId replaced by ManagedBy in GET Managed Disk API

Note that you can get the behavior of v1.0.0 by forcing the Api Version to "2016-04-30-preview" to update your package but not the code:

```java
> ComputeManagementClient(credentials, subscription_id,
> api_version="2016-04-30-preview")
```

## 1.0.0 (2017-05-15)

- Tag 1.0.0rc2 as stable (same content)

## 1.0.0rc2 (2017-05-12)

**Features**

- Add Compute ApiVersion 2016-03-30 (AzurerStack default)

## 1.0.0rc1 (2017-04-11)

**Breaking Changes**

- Container service is now in it's own client ContainerServiceClient

**Features**
To help customers with sovereign clouds (not general Azure), this version has official multi ApiVersion support for the following resource type:

- Compute: 2015-06-15 and 2016-04-30-preview

The following resource types support one ApiVersion:

- ContainerService: 2017-01-31

## 0.33.0 (2017-02-03)

**Features**

This release adds Managed Disk to compute. This changes the default disk creation behavior to use the new Managed Disk feature instead of Storage.

## 0.32.1 (2016-11-14)

- Add "Kubernetes" on Containers
- Improve technical documentation

## 0.32.0 (2016-11-02)

**Breaking change**

New APIVersion for "container" 2016-09-30.

- several parameters (e.g. "username") now dynamically check before REST calls validity against a regexp. Exception will be TypeError and not CloudError anymore.

## 0.31.0 (2016-11-01)

**Breaking change**

We renamed some "container" methods to follow Azure SDK conventions

- "container" attribute on the client is now "containers"
- "list" changed behavior, now listing containers in subscription and lost its parameter
- "list_by_resource_group" new method with the old "list" behavior

## 0.30.0 (2016-10-17)

- Initial preview release. Based on API version 2016-03-30.
## 0.20.0 (2015-08-31)


Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
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Description-Content-Type: text/markdown

Found in path(s):
* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1.zip/azure-mgmt-compute-12.0.0/azure_mgmt_compute.egg-info/PKG-INFO
* /opt/cola/permits/1155895537_1619081415.62/0/azure-mgmt-compute-12-0-0-1.zip/azure-mgmt-compute-12.0.0/PKG-INFO

### 1.2262 jboss-jsp-api-2-3-spec 2.0.0.Final

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1.2264 glibc 2.27

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* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4-1-32-final-sources-2-
  jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1110676440_1606843194.97/0/netty-resolver-4-1-32-final-sources-2-
  jar/io/netty/resolver/InetSocketAddressResolver.java
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1.2273 pycparser 2.18
1.2273.1 Available under license:

pycparser -- A C parser in Python

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1.2274 metrics-jmx 4.1.7

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jmx
Bnd-LastModified: 1588454598705
Build-Jdk: 1.8.0_232
Built-By: joschi
Bundle-Description: A set of classes which allow you to report metrics via JMX.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration with JMX
Bundle-SymbolicName: io.dropwizard.metrics.jmx
Bundle-Version: 4.1.7
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,javax.management";version="4.1.7"
Implementation-Title: Metrics Integration with JMX
Implementation-URL: https://metrics.dropwizard.io/metrics-jmx
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.1.7
Import-Package: org.slf4j;version="[1.6.0,2.0.0)".com.codahale.metrics ;version="[4.1,5)".javax.management
Require-Capability: osgi.ee:filter:"(&!(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1120362503_1609938002.12/0/metrics-jmx-4-1-7-jar/META-INF/MANIFEST.MF

1.2275 chardet 3.0.4
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HISTORY -
Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridilig (Regis.Cridilig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clarl.ics.mit.edu) supplied the NeXT ports. Douglas Steel (doug@w.g.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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* m4/ax_func_which_gethostbyname_r.m4

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/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *<p></p>
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */

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* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.2286 nginx 1.18.0
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/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}. 
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its subtypes:
* <ul>
* <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* 
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* 
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <h3>The context object</h3>

A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandlerContext} is supposed to interact with the {@link ChannelPipeline} it belongs to via a context object. Using the context object, the {@link ChannelHandlerContext} can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using {@link AttributeKey}s) which is specific to the handler.

<h3>State management</h3>

A {@link ChannelHandler} often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```
public interface Message {
    // your methods here
}
```

```
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(@ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                // handle other cases...
            }
        }
    }
}
```
Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {
    {@code @Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }
}
```

<h4>Using {@link AttributeKey}s</h4>

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use {@link AttributeKey}s which is provided by

```java
public interface Message {
    // your methods here
}
```

```java
{@code @Sharable}
public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
    private final {@link AttributeKey}<{@link Boolean}> auth =
           {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};

    {@code @Override}
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        {@link Attribute}<{@link Boolean}> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else (message instanceof GetDataMessage) {
            if (<b>Boolean.TRUE.equals(attr.get())</b>) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            }
        }
    }
}
```
Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends `@link ChannelInitializer`<`@link Channel`> {

    private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();

    `@code @Override`
    public void initChannel(`@link Channel` channel) {
        channel.pipeline().addLast("handler", <b>SHARED</b>);
    }
}
```

<h4>The `@Sharable` annotation</h4>

In the example above which used an `@link AttributeKey`, you might have noticed the `@code @Sharable` annotation.

If a `@link ChannelHandler` is annotated with the `@code @Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like `<a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>`.

Additional resources worth reading

Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
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  jar/io/netty/bootstrap/AbstractBootstrap.java
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  jar/io/netty/channel/EventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/CompleteChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelFutureListener.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelPromiseAggregator.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/FailedChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelHandlerContext.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/socket/package-info.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/ChannelInitializer.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/socket/InternetProtocolFamily.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-
  jar/io/netty/channel/FixedRecvByteBufAllocator.java

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* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4.1-48-final-sources-1-jar/io/netty/channel/ChannelOutboundHandler.java
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* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4.1-48-final-sources-1-jar/io/netty/channel/ChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4.1-48-final-sources-1-jar/io/netty/channel/nio/AbstractServerChannel.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/bootstrap/ServerBootstrap.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/ChannelException.java
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* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/local/package-info.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/nio/NioEventLoopGroup.java
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* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/ChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/oio/OioEventLoopGroup.java
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* /opt/ws_local/PERMITS_SQL/1068412432_1594397775.14/0/netty-transport-4-1-48-final-sources-1-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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Otherwise, if the work is a derivative of the Library, you may
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.2296 jackson-coreutils 1.0

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Adam Bryzak
Adam Sotona
Aleksandr Ishutin
Alex Rosen
Alexei Yudichev
Alexey Panchenko
Alexey Solofnenko
Alfred Theorin
Alison Winters
Andreas Ames
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2000-05-05
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</introduction>

<name>
<first>Adam</first>
<last>Blinkinsop</last>
</name>

<name>
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<last>Bryzak</last>
</name>

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1.2305 opensaml-saml-impl 3.3.0
1.2306 netty-codec-http 4.1.32.Final

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jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
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* /opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
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jar/io/netty/handler/codec/http2/Http2ServerUpgradeHandler.java
* /opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
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1.2307 goprotobuf v1.4.2

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1.2308 log4j-api 2.13.0

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1.2315 antlr-runtime 4.7.2

1.2316 libtool 2.4.6
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1.2327 jackson-dataformat-yaml 2.10.1
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*/
/**
* Constructs a new [@link Textifier]. <i>Subclasses must not use this
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* version.
*
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

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 */
/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
* @param owner
*   the owner's class name.
* @param access
*   the method's access flags (see \{@link Opcodes\}).
* @param name
*   the method's name.
* @param desc
*   the method's descriptor (see \{@link Type Type\}).
* @param mv
*   the method visitor to which this adapter delegates calls. May
*   be &lt;tt>null</tt&gt;.
* @throws IllegalStateException
*   If a subclass calls this constructor.
*/

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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */
Found in path(s):
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/FieldInsnNode.java
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/ cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/Interpreter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
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*/
/**
 * Constructs a new ClassNode. <i>Subclasses must not use this constructor</i>. Instead, they must use the ClassNode(int)
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

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  jar/org/objectweb/asm/xml/SAXClassAdapter.java
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  jar/org/objectweb/asm/xml/ASMContentHandler.java
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  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/package.html
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]) ]
 * version.
 *
 * @param mv            the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access        the method's access flags (see [@link Opcodes]). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name          the method's name.
 * @param desc          the method's descriptor (see [@link Type]).
 * @param signature     the method's signature. May be <tt>null</tt>.
 * @param exceptions    the internal names of the method's exception classes (see
 * [ @link Type#getInternalName() getInternalName() ]). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
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1.2344 commons-lang3 2.4

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*/
Ales Justin <ales.justin@gmail.com>
Alessio Soldano <alessio.soldano@jboss.com>
Alexey Loubiansky <alex@jboss.org>
Alexey Loubiansky <olubians@tstudio.(none)>
Andrew Dinn <adinn@redhat.com>
Andrew Lee Rubinger <alr@jboss.org>
Andy Taylor <ataylor@redhat.com>
Anil Saldhana <anil.saldhana@jboss.com>
Aslak Knutsen <aslak@redhat.com>
Bob McWhirter <bob@mewhirter.org>
Brian Stansberry <brian.stansberry@jboss.com>
Brian Stansberry <brian.stansberry@redhat.com>
Brian Stansberry <bstansberry@jboss.com>
Carlo de Wolf <carlo@nerdnet.nl>
Carlo de Wolf <cdewolf@redhat.com>
Darran Lofthouse <darran.lofthouse@jboss.com>
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Dimitris Andreadis <dimitris@redhat.com>
Emanuel Muckenhuber <emucken@redhat.com>
Flavia Rainone <flavia.rainone@jboss.com>
Heiko Braun <ike.braun@googlemail.com>
Howard Gao <hgao@redhat.com>
Jaikiran Pai <jaikiran.pai@gmail.com>
James Perkins <jperkins@redhat.com>
James Perkins <jrperkinsjr@gmail.com>
Jason T. Greene <jason.greene@redhat.com>
Jason T. Greene <jason@stacksmash.com>
Jean-Frederic Clerc <jfclere@gmail.com>
Jean-Frederic Clerc <jfclere@jfcpc.(none)>
Jeff Zhang <jeff.zhang@jboss.org>
Jesper Pedersen <jesper.pedersen@redhat.com>
Jim Ma <ema@redhat.com>
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Jonathan Pearlin <jdp.grails.dev@gmail.com>
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Rmy Maucherat <rmaucher@redhat.com>
Scott M Stark <scott.stark@jboss.org>
Scott Marlow <smarlow@redhat.com>
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Stan Silvert <ssilvert@jboss.com>
Stan Silvert <ssilvert@redhat.com>
Stefan Guilhen <sguilhen@redhat.com>
Stefano Maestri <stefano.maestri@javalinux.it>
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* /opt/cola/permits/1136663414_1613849809.98/0/zookeeper-3-6-2-sources-2-jar/org/apache/zookeeper/server/command/ConsCommand.java
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  jar/org/apache/zookeeper/cli/VersionCommand.java
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  jar/org/apache/zookeeper/server/util/MessageTracker.java
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Upstream Author(s):

Marcus Baker <xxx@yyy>
Joo Henrique F. Freitas <xxx@yyy>
Daniel Ferreira de Lima <xxx@yyy>
Tiago Octaviano Primini <xxx@yyy>
Thomas Nilsson <xxx@yyy>
Matt Hargett <xxx@yyy>
Chris LeBlanc <xxx@yyy>
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EnumSet<Attribute> requiredAttributes = EnumSet.of(Attribute.INTEGRITY, Attribute.CONFIDENTIALITY, case CONFIDENTIALITY: { transportConfig.setConfidentiality(attValue); EnumSet<Element> requiredElements = EnumSet.of(Element.INTEGRITY, Element.CONFIDENTIALITY, case CONFIDENTIALITY: { transportConfig.setConfidentiality(getElementText(reader, propertyReplacer));

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jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
*/opt/ws_local/PERMITS_SQL/1068448939_1594389094.68/0/netty-codec-socks-4-1-48-final-sources-1-
jar/io/netty/handler/codec/socks/SocksAuthStatus.java
*/opt/ws_local/PERMITS_SQL/1068448939_1594389094.68/0/netty-codec-socks-4-1-48-final-sources-1-
jar/io/netty/handler/codec/socksx/SocksVersion.java
*/opt/ws_local/PERMITS_SQL/1068448939_1594389094.68/0/netty-codec-socks-4-1-48-final-sources-1-
jar/io/netty/handler/codec/socksx/SocksCmdType.java
*/opt/ws_local/PERMITS_SQL/1068448939_1594389094.68/0/netty-codec-socks-4-1-48-final-sources-1-
jar/io/netty/handler/codec/socksx/SocksVersion.java

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1.2368 busybox 1.27.2

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* Will not need to do anything if using PreparedStatement's standard methods,
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* <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
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The classes in this package make JDBC easier to use and
reduce the likelihood of common errors. In particular, they:

- Simplify error handling, avoiding the need for try/catch/finally
  blocks in application code.
- Present exceptions to application code in a generic hierarchy of
  unchecked exceptions, enabling applications to catch data access
  exceptions without being dependent on JDBC, and to ignore fatal
  exceptions there is no value in catching.
- Allow the implementation of error handling to be modified
  to target different RDBMSes without introducing proprietary
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This package and related packages are discussed in Chapter 9 of
Expert One-On-One J2EE Design and Development
by Rod Johnson (Wrox, 2002).

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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con a JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @return a Map of input parameters, keyed by name (never { @code null})
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* /

Found in path(s):
* /opt/cola/permits/1141636805_1615091557.41/0/spring-jdbc-5-1-17-release-sources-
jar/org/springframework/jdbc/core/ParameterMapper.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
* /jar/io/netty/resolver/HostsFileEntries.java

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* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/SimpleNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/NoopAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/AddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/NoopAddressResolverGroup.java
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* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/AddressResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/HostsFileParser.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/InetSocketAddressGroup.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/DefaultAddressResolverGroup.java
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**1.2415 dosfs-tools 4.1**

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
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the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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<td>2009</td>
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3.1.2 | 3.1 | 2010 | PSF | yes
3.2  | 3.1 | 2010 | PSF | yes

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1.2444 java-getopt 1.0.13

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The following organisations and people have contributed to the Bouncy Castle Cryptography Package.

Thanks, may your castles never deflate!

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The following people donated financially to help with the release of 1.63:

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<li>Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!</li>
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<li>Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com">http://voxeolabs.com</a></li>
<li><a href="https://www.coreinfrastructure.org/">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.</li>
<li>Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.</li>
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- Soren Hilmer &lt;hilmer@064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.

- Uwe Guenther &lt;uwe@064;csc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

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- Carmen Bastiaans &lt;cbastiaa@064;microbits.com.au&gt; - fixing the improper null pointer in the setting of certificates in the PKCS12 key store.

- Tomas Gustavsson &lt;tomasp@064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.

- Eugen Kuleshov &lt;euxx@hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.

- Megan Woods &lt;meganwoods@064;sekurafile.com&gt; - initial implementation of ECIES.

- Christian Geuer-Pollmann &lt;geuerp@064;apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESeDeWrap.

- Michael M&amp;#252;hle &lt;Michael@064;mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.

- Michael Mansell &lt;me@064;michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.

- Eike Recker &lt;eike.recker@064;gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.

- Chris Southern &lt;CSouthern@064;baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.

- Sidney Markowitz &lt;sidney@064;sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.

- Chris Kerr &lt;ckerr@064;filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.
Mike Bean &lt;mbean@lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.

Martin Petraschek &lt;e9526225@student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.

Jess Garms &lt;jgarms@yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.

Mike Bremford &lt;mike@big.faceless.org&gt; - contributing the initial PKCS7 implementation.

Shankar Srinivasan &lt;ssr002@yahoo.com&gt; - S/Mime interoperability testing and debugging.

Stef Hoeben &lt;steseke@aspronet.com&gt; - adding Montgomery multiplication to the BigInteger class.

Klausiusz Ciosk &lt;kciokos@max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.

Thomas Houtekier &lt;Thomas.Houtekier@tecatrade.net&gt; - S/Mime testing and debugging. Interoperability with Biztalk.

Don Hillsberry &lt;hillsber@64.dialcorp.com&gt; - S/Mime testing and debugging.

Kazuho Furuya &lt;ktfuruya@infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.

Jason Novotny &lt;jdnovotny@64.lbl.gov&gt; - initial work on the openSSL PEM processing.

Joel Hockey &lt;joel.hockey@64.qsipayments.com&gt; - initial work on the openSSL PEM processing.

John Steenbruggen &lt;JohnS@64.geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske &lt;justin@64.chapweske.com&gt; - ordering patch for Tiger message digest.

John Serock &lt;jseroock@64.hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.

Sascha Weinreuter &lt;Sascha.Weinreuter@cit.de&gt; - fixed SMIME saveChanges() bug.

Andre Wehnert &lt;aw5@64.mailinf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.

Luigi Lo Iacono &lt;lo_iacono@64.muc.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.

Tim Sakach &lt;tsakach@64.certivo.net&gt; - SMIME v2 compatibility patches.

Marcus Povey &lt;mpovey@64.brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.

Sebastian Clauß &lt;sc2@64.inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza &lt;nicolas.bielza@64.alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.

Casey Marshall &lt;rsdio@64.metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes &lt;rick.zeldes@64.eds.com&gt; - initial code for CMS/SMIME CompressedData.

Jarek Gawor &lt;gawor@64.mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Brett Neumeier &lt;random@64.rnd.cx&gt; - patch to OriginatorIdenfierOrKey object, improvements to encoders package, introduction of UrlBase64.

Graham Coles &lt;graham.coles@64.retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.

J&ouml;r&uuml;n von Kattche &lt;j.Kattchee@64.seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso &lt;matartuso@64.libero.it&gt; - picking up the possible overread in ASN1InputStream.
Julian Morrison &lt;julian@extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein &lt;eso@esomail.de&gt; - fix to long conversion in clean room SecureRandom.

Jürgen Schwarze &lt;JSchwarze@ulc.de&gt; -(Locale fix for the clean room JCE.

Bryan Lovquist &lt;bl@#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.

Artem Portnoy &lt;Artem_Portnoy@#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.

Michael Hauml;usler &lt;haeusler@#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.

Johan Seland &lt;johans@#064;netfonds.no&gt; - general toString for BigInteger class.

Johannes Nicolai &lt;johannes.nicolai@#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.

Marc Doberva &lt;marc.doberva@#064;lex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.

Jan Dvorak &lt;jan.dvorak@#064;mathan.cz&gt; - initial implementation of the light weight Null block cipher.

Joe Cohen &lt;jcohen@#064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.

Chris Long&lt;aclong@ece.cmu.edu&gt; - adding public key decoding to PEMReader.

Hess Siemelink&lt;hes@#064;ecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.

Stefan Puiu&lt;stefanpuiuro@#064;yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang &lt;kaiseryang@#064;yahoo.com&gt; - Finding BigInteger loop problem in prime generation.

Iri Urbanec &lt;ir.urbanec@#064;logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().

Justin Kolb &lt;jkolb@#064;pristx.com&gt; - patch toDSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser@#064;gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;M_Dvorak@#064;cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein &lt;brien.oberstein@transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.

Ian Haywood &lt;iand@#064;haywood.bpa.nu&gt; - addition of getSInatureType to PGPSignature.

Jonathan Edwards &lt;s34gull@#064;mac.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola &lt;mariusz.bandola@#064;cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP SingleResp. Patch to X509Name for delaing with general objects in sequences.

Andrew Thornton &lt;andrew@#064;caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander &lt;gl@#064;bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers &lt;Antoon.Bosselaers@kuleuven.ac.be&gt; - help with RipeMD320 implementation.

Peter Sylvester &lt;Peter.Sylvester@#064;edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints
Doug &lt;ummmmm@myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>
<li>Francois Staes &lt;fstaes@064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralizedString, addition of settable signed object info to CMSvSignedDataGenerator, patch to DH key agreement.</li>
<li>W.R. Dittmer &lt;wdittmer@064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>
<li>Perez Paz Luis Alberto &lt;laperez@064banxico.org.mx&gt; - patch to use of BitString in X.500 name.</li>
<li>James Wright &lt;James_Wright@064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>
<li>Jim Ford &lt;jim@064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hauser &lt;lhaeusler@064ponton-consulting.de&gt; - extra aliases for provider.</li>
<li>Sai Pullabhotla &lt;psai@064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller &lt;joseph@064digieweb.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;lt;xzy@064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen@064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun@064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pdukem@064email.cz&gt; - patch to CMSvSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva@wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.</li>
<li>Alpesh Parmar &lt;alps@064linuxmail.org&gt; - patch for class cast problem in PGPKPubliccKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jgengelbach@064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug@064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt;mmundy1@064umbc.edu&gt; - infinite loop prevention patch to PKCS5SP2ParametersGenerator.</li>
<li>Tom Cargill &lt;cargill@064profcon.com&gt; - spelling patch in provider.</li>
<li>Jan Breitenstrom Christian &lt;J.C.Breitenstrom@064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignaturePacket.</li>
<li>Zanotti Mirko &lt;zanotti@064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Nicola Scendonii &lt;nscendonii@064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
<li>Ville Skytt&amp;uuml; &lt;ville.skytt@064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
<li>Bruce Gordon &lt;bruce.gordon@savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
<li>Miles Whiteley &lt;miles.whiteley@064savvis.net&gt; - "$23" fix for BCPGInputStream new packets.</li>
<li>Albert Moliner &lt;tamoliner@064evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;carlos0@064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.
<li>Javier Delgadillo &lt;javi@#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hahkala &lt;joni.hahkala@#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, ifetAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org">EGEE project</a> for making the work available.</li>
<li>Rolf Schillinger &lt;rolf@#064sr-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey_Bahtin@#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
<li>Franck Leroy &lt;Franck.Leroy@#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhiko Yamanaka &lt;ymnk@#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
<li>Sergey Bahtin &lt;Sergey_Bahtin@#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
<li>Soren Hilmer &lt;soren.hilmer@tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell &lt;mitchell@#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.</li>
<li>Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</li>
<li>Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo &lt;matartuso@#064libero.it&gt; - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson &lt;andrew.paterson@#064burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov &lt;vladimir.n.molotkov@#064intel.com&gt; - extensive provider exception handling compliance testing.</li>
<li>Florin Kollan &lt;adlocflo@#064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>
<li>Pavel Vassiliev &lt;paulivas@#064gmail.com&gt; - Initial GOST28147Mac implementation.</li>
<li>Tom Pesman &lt;tom@#064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>
<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>
<li>Arndt Hasch &lt;Arndt.Hasch@#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung &lt;t2cung@#064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz &lt;cschultz@#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>David M. Lee &lt;dmlee@#064crossroads.com&gt; - implementation assistance with streaming CMS</li>
classes.</li>
<li>Joel Rees &lt;rees@scm.com.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.</li>
<li>Remi Blancher &lt;Remi.Blancher@keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O'Rourke &lt;brainorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>
<li>David Josse &lt;david.josse@064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>
<li>Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>
<li>Lawrence Tan &lt;lawrcan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>
<li>Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>
<li>Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>
<li>Olaf Keller, &lt;olaf.keller.bc@064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>
<li>Jürgen Eichhorn &lt;eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<li>Karsten Ohmke &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name types for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.</li>
<li>Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>
<li>Carlos Lozano Ruiz &lt;carlos@064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li>
<li>John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neusatz Guilhen &lt;stneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>
<li>Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>
<li>Georg Lippold &lt;georg.lippold@064gmx.de&gt; - initial implementation of NaccacheStern cipher.
Chris Viles &lt;chris_viles@yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen@nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Pasi Eronen &lt;Pasi.Eronen@nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin H&amp;uml;berling &lt;arminha@064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vouch &lt;xavier@064brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews@064dc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;rjoaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@064mimt.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juilusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@064ttnr.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga K&amp;uuml;bler &lt;olga.kaethler@064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

N&amp;uuml;ria Mar&iacute; &lt;numaa@064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;js@064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike@064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller@064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;pknopp@064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozd &lt;gwozdziu@064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.
Bartosz Malkowski &lt;bmlkow@064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi@064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn@064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDFEs.

Roelof Naude &lt;roelof.naude@064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_Certificate_REQUEST.

Patrick Peck &lt;peck@064signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene &lt;michael@064sigid-grid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Jon Larrañaga &lt;ilarra@064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore@064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;ru064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;ttobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bourneycastle_pfitz@064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCRestrictStyle.

Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.

Harakiri &lt;harakiri_23@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pmahenriques@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kummeringer &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.

Richard Farr &lt;farr.se@064gmail.com&gt; - initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani@064sogei.it&gt; - patch for recognising multiple counter signatures.

Robin Lundgren &lt;r737lundgren@064gmail.com&gt; - CMPCertificate constructor from
X509CertificateStructure fix.&lt;/li&gt;
&lt;li&gt;Petr Kadlec &lt;mormegil&#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.&lt;/li&gt;
&lt;li&gt;Andreas Antener &lt;antener_a&#064064mx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.&lt;/li&gt;
&lt;li&gt;Harendra Rawat &lt;hrswrawat&#064064yahoo.com&gt; fix for BERConstructedOctetString.&lt;/li&gt;
&lt;li&gt;Rolf Lindemann &lt;lindemann&#064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].&lt;/li&gt;
&lt;li&gt;Alex Artamonov &lt;alexart.home&#064064gmail.com&gt; name look up patch for GOST-2001 parameters.&lt;/li&gt;
&lt;li&gt;Mike Lyons &lt;mlyons&#064064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.&lt;/li&gt;
&lt;li&gt;Chris Cole &lt;chris_h_cole&#064064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.&lt;/li&gt;
&lt;li&gt;Tomas Krivanek &lt;tom&#064064atack.cz&gt; added checking of Sender header to SignedMailValidator.&lt;/li&gt;
&lt;li&gt;Michael &lt;emfau&#064064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.&lt;/li&gt;
&lt;li&gt;Trevor Perrin &lt;trevor&#064064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.&lt;/li&gt;
&lt;li&gt;Markus Kilarings &lt;markkus&#064064primekey.se&gt; several enhancements to TimeStampResponseGenerator.&lt;/li&gt;
&lt;li&gt;Dario Novakovic &lt;darionis&#064064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.&lt;/li&gt;
&lt;li&gt;Alex Birkett &lt;alex&#064064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].&lt;/li&gt;
&lt;li&gt;Wayne Grant &lt;waynedgrant&#064064gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.&lt;/li&gt;
&lt;li&gt;Frank Cornelis &lt;info&#064064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.&lt;/li&gt;
&lt;li&gt;Jan Dittberner &lt;jan&#064064dittberner.info&gt; addHeader patch for SMIME generator.&lt;/li&gt;
&lt;li&gt;Bob McGowan &lt;boab.mcgook&#064064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.&lt;/li&gt;
&lt;li&gt;Ivo Matheis &lt;ivo.matheis&#064064seeburger.de&gt; fix to padding verification in ISO-9796-1.&lt;/li&gt;
&lt;li&gt;Marco Sandrini &lt;nessche&#064064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.&lt;/li&gt;
&lt;li&gt;Alf Malf &lt;alfilmalf&#064064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.&lt;/li&gt;
&lt;li&gt;Alfonso Massa &lt;alfonso.massu&#064064insiel.it&gt; contributions to CMS time stamp classes.&lt;/li&gt;
&lt;li&gt;Giacomo Boccardo &lt;gboccardo&#064064gmail.com&gt; initial work on CMSTimeStampedDataParser.&lt;/li&gt;
&lt;li&gt;Arnis Tartu &lt;arnis&#064064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.&lt;/li&gt;
&lt;li&gt;Janusz Sikocinski &lt;J.Sikocinski&#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.&lt;/li&gt;
&lt;li&gt;Juri Hudolejv &lt;jhudolejv&#064064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.&lt;/li&gt;
&lt;li&gt;Liane Velten &lt;liane.velten&#064064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.&lt;/li&gt;
&lt;li&gt;Shawn Willden &lt;swillden&#064064google.com&gt; additional functionality to PGPKeyRing.&lt;/li&gt;
&lt;li&gt;Atanas Krachev &lt;akrachev&#064064gmail.com&gt; added support for revocation signatures in OpenPGP.&lt;/li&gt;
Mickael Laiking &lt;mickael.laiking#keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu#hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;rbernd#gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak#BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid#ntnutech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz#gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.


Petar Petrov &lt;p.petrov#bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr#gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson#quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj#gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth#WPECGLtYbVi8Rl6Y7VzI2Lv2EUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny#644the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject. BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes#gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;philf_b#4@yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc#carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&eacute;n Borell &lt;samuel#primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner#64certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington#orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20. Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSD BCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad#primekey.se&gt; patch for working arround JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin#xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;5555d#gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy#gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.
Ash Hughes &lt;ashley.hughes@blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome@gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio@metrics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi@akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&amp;uuml;ller &lt;eric.mueller@64sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts@64gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov@64gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86@64gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc@64ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

Axel VDB &lt;axel-vdb@riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;eric.mueller@64sage.de&gt; further work on completing gradle build.

Waldemar Dick &lt;wdick@64devmue.de&gt; code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward@64pdflabs.com&gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;klyubin@64google.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;gsoc.student@64gmail.com&gt; Initial support for block cipher IVs in ISEEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter@iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller@64gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli@64arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Robert Bushman &lt;robertbush@boouncycastle&64traxel.com&gt; Clean up of DirectKeySignature example.

Maurice Aarts &lt;aarts@64risecure.com&gt; updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.

KB Sriram &lt;mail_kb@yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze &lt;marco@64nightlabs.de&gt; Reported verification bug in GenericSigner.

Martin Schaef &lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.

dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich &lt;https://github.com/dstutz&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
Hauke Mehrtens &lt;hauke@hauke-m.de&gt;: TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman &lt;dmz@064galois.com&gt;: Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitza &lt;jk.kapitza@schwarze-allianz.de&gt;: Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;johan@064primekey.se&gt;: Update to RFC 6960 for OCSPObjectIdentifiers.

nikosn &lt;https://github.com/nikosn&gt;: Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch &lt;axel-vdb@064riseup.net&gt;: Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.

Derek Atkins &lt;derek@064htfp.com&gt;: Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky &lt;peto@064halicky.sk&gt;: Correction to notification/error message handling in SignedMailValidator.


Thomas Belot &lt;thomas.belot+BC@gmail.com&gt;: Initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce &lt;https://github.com/rdicroce&gt;: Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Dominik Schürmann &lt;https://github.com/dschuermann&gt;: Method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael &lt;MSKnete@064web.de&gt;: Initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Leonard Dallot &lt;https://github.com/dallotTazTag&gt;: Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen &lt;j.w.janssen@bouncycastle.org&gt;: Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt;: Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer@064gmail.com&gt;: Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;benoit.charles@opentrust.com&gt;: Fix for IES data length check on decryption.

Niko &lt;nfinik95@064gmail.com&gt;: Fix to cast issue in getOutputSize() for ECIES.

akwizgran &lt;https://github.com/akwizgran&gt;: Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.

Matthias Edelhoff &lt;Matthias.Edelhoff@064cryptography.com&gt;: BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat &lt;lukasz.deputat@064gmail.com&gt;: Fixed bugs in TLSUtils read methods.

Justin Ludwig &lt;https://github.com/justinludwig&gt;: Iterator fix for PGPObjecFactory to handle stream
packets at the start of iterated data.<p></p>
<li>Andr&eacute; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC
AlgorithmParameterSpi</li>
<li>Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name
methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-
2012.</li>
<li>William Glanton &lt;wglanton77&amp;#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>
<li>jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle &lt;jnaegle&amp;#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE
SMIMEA entry.</li>
<li>Andrew Bonventre &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser,
BrokenKDF2BytesGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland&amp;#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-
MT implementation.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as
integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.</li>
<li>Scott Woodward &lt;scott&amp;#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>
<li>chris mcown &lt;0xchrismcown&#064;gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu&#064;gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;up.gadermaier&#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; ; Javadoc fixes.</li>
<li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.</li>
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>
<li>Moses Palmkeacutet;r, TrueSec &lt;Henrik.Palmer&#064;truesec.se&gt; Additional improvements to constant time comparisons.</li>
<li>René Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
<li>THausherr &lt;https://github.com/THausherr&gt;: Addition generic support for CMS/TSP functions.</li>
<li>Gaylor Bosson &lt;https://github.com/Giltonielt&gt;: Initial implementation of Blake2xs.</li>
<li>gaellalire &lt;https://github.com/gaellalire&gt;: Patch for unprotected PGP private keys as SExpr.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt;: Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt;: Argon2 optimisations.</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt;: Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt;: Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
<li>Gsealy &lt;https://github.com/Gsealy&gt;: Addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt;: Update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt;: Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt;: GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;https://github.com/tobias#064pentagrid.ch&gt;: Identification of 1.63 regression in ASN.1 parsing.</li>

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.2469 elasticsearch-scripting-painless-spi

6.8.10

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1.2490 protobuf-java 3.0.0

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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* /opt/ws_local/PERMITS_SQL/1094800717_1601320496.39/0/wildfly-elytron-password-impl-1-11-4-final-sources-jar/org/wildfly/security/password/impl/UnixMD5CryptPasswordImpl.java

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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1.2513 wildfly-sar 19.1.0.Final
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1.2515 nmap 6.40 19.el7

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts 
as the successor of the GNU Library Public License, version 2, hence 
the version number 2.1.]

Preamble

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This license, the Lesser General Public License, applies to some 
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When we speak of free software, we are referring to freedom of use, 
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Tue Oct 24 12:28:44 CDT 2006

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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```python
import io, sys
def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = { }
```

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Found in path(s):

```
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/LICENSE.rst
```

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arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': package_data['__version__'],
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'python_requires': '>2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*,',
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.2542 wildfly-core-management-client
11.1.1.Final
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1.2543 store 1.3.16

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1.2544 opensaml-storage-api 3.3.0
1.2545 nghttp2 1.15.0

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Special thanks are due to Chip Rosenthal for his fine testing efforts;
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* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/csrf/LazyCsrfTokenRepository.java
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* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/jackson2/CookieDeserializer.java
* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/jackson2/SavedCookieMixin.java
* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/jackson2/WebAuthenticationDetailsMixin.java

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* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-jar/org/springframework/security/web/authentication/LoginUrlAuthenticationEntryPoint.java
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* /opt/ws_local/PERMITS_SQL/1070948417_1594787990.74/0/spring-security-web-5-1-11-release-sources-
1.2555 elasticsearch-rest-client-sniffer 6.8.10

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---

1.2580 webencodings 0.5.1

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  0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1-tar-gz/webencodings-
from setuptools import setup, find_packages
import io
import os
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), '__init__.py'), encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'), encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
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        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
    ]
)
webencodings.mklabels

~~~~~~~~~~~~~~~~~~~

Regenerate the `webencodings.labels` module.

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```python
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['""'

webencodings.labels

~~~~~~~~~~~~~~~~~~~

Map encoding labels to their name.

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```
LABELS = {
'':
labels = [
    (repr(assert_lower(label)).lstrip('u'),
     repr(encoding['name']).lstrip('u'))
    for category in json.loads(urlopen(url).read().decode('ascii'))
    for encoding in category['encodings']
    for label in encoding['labels']]
max_len = max(len(label) for label, name in labels)
parts.extend(
    '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
    for label, name in labels)
parts.append('}
return ''.join(parts)

if __name__ == '__main__':
print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+
In order to be compatible with legacy web content
when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, `US-ASCII` and `iso-8859-1` on the web are actually
aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

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python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
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John Estabrook
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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 */
/**
 * A [@link WebApplicationContext] that can be used to bootstrap itself from a contained
 * [@link ServletWebServerFactory] bean.
 *
 * This context will create, initialize and run an [@link WebServer] by searching for a
 * single [@link ServletWebServerFactory] bean within the [@link ApplicationContext]
 * itself. The [@link ServletWebServerFactory] is free to use standard Spring concepts
 * (such as dependency injection, lifecycle callbacks and property placeholder variables).
 *
 * In addition, any [@link Servlet] or [@link Filter] beans defined in the context will be
 * automatically registered with the web server. In the case of a single Servlet bean, the
 * '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
 * name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
 * always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
 *
 * For more advanced configuration, the context can instead define beans that implement
 * the [@link ServletContextInitializer] interface (most often
 * [@link ServletRegistrationBean]s and/or [@link FilterRegistrationBean]s). To prevent
 * double registration, the use of [@link ServletContextInitializer] beans will disable
 * automatic Servlet and Filter bean registration.
 *
 * Although this context can be used directly, most developers should consider using the
 * [@link AnnotationConfigServletWebServerApplicationContext] or
 * [@link XmlServletWebServerApplicationContext] variants.
 *
 * @author Phillip Webb
Jar/gradle/dependencies

* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/servlet/error/ErrorController.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/system/ApplicationPid.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/servlet/view/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/reactive/result/view/MustacheView.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/context/properties/source/AliasedConfigurationPropertySource.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/context/event/ApplicationFailedEvent.java
* /opt/ cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/admin/SpringApplicationAdminMXBeanRegistrar.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/context/properties/bind/AggregateElementBinder.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/embedded/netty/NettyReactiveWebServerFactory.java
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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/context/env/RandomValuePropertySource.java
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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/json/JacksonJsonParser.java
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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/jdbc/package-info.java
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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/web/server/WebServerException.java
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* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/convert/CollectionToDelimitedStringConverter.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/jdbc/AbstractDataSourceInitializer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources.jar/org/springframework/boot/jackson/package-info.java
jar/org/springframework/boot/env/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/diagnostics/package-info.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/origin/TextResourceOrigin.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/diagnostics/analyzer/ConnectorStartFailureAnalyzer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/jta/atomikos/AtomikosDataSourceBean.java

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jar/org/springframework/boot/system/ApplicationHome.java
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jar/org/springframework/boot/web/embedded/jetty/JettyWebServer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/embedded/tomcat/TomcatReactiveWebServerFactory.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/embedded/undertow/SslBuilderCustomizer.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/web/server/SslConfigurationValidator.java
* /opt/cola/permits/1141637099_1615091502.06/0/spring-boot-2-1-16-release-sources-
jar/org/springframework/boot/jta/atomikos/PoolingDataSourceBean.java
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* /opt/cola/permits/1136415611_1613765361.3/0/akka-actor-2-11-2-5-22-sources-1-jar/akka/dispatch/forkjoin/LinkedTransferQueue.java
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* /opt/cola/permits/1136415611_1613765361.3/0/akka-actor-2-11-2-5-22-sources-1-jar/akka/dispatch/forkjoin/package-info.java
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* javax.annotation:javax.annotation-api
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* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

------
Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2601 libseccomp 2.3.3-4

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1.2602 openjdk-jre 11.0.11u9

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1.2603 commons-runtime 3.0.11

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1.2604 weld-core-impl 3.1.3.Final

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2607 adduser 3.118

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1.2608 asn1crypto 0.24.0
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* /opt/ws_local/PERMITS_SQL/1094802951_1601319454.03/0/wildfly-elytron-x500-principal-1.11.4-final-sources-jar/org/wildfly/security/x500/principal/X500SubjectEvidenceDecoder.java

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1.2610 binutils 2.28.51

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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++++++++++++++++++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.
Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.
Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.2611 regexp 2.7.1

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1.2612 curl 7.58.0
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Andrew Tunnell-Jones  
Ask Bjrn Hansen  
Dave Cheney  
Dusty Wilson  
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Other contributions, including writing code, updating docs, and submitting
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Adi Roiban
Agbonze O. Jeremiah
Albertas Agejevas
Aleksi Torhamo
Alex Gaynor
Alex Groce
Alex Sandro
Alexander Todorov
Alexander Walters
Andrew Hoos
Anthony Sottiile
Arcadiy Ivanov
Aron Griffis
Artem Dayneko
Ben Finney
Bill Hart
Brandon Rhodes
Brett Cannon
Buck Evan
Calen Pennington
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Written by: Philip Hazel
Email local part: ph10
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   analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishMinimalStemmer.java
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1.2644 angular-ui-ace 0.2.3

1.2645 xmldiff 2.4
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1.2646 pam 1.1.8-3.6ubuntu2.18.04.2
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-------------------------------------------------------------------------

Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char*)user != '\0')
+ {
+    PAM_MODUTIL_DEF_PRIVS(privs);
+    /* Get the password entry */
+    pwd = pam_modutil_getpwnam (pamh, user);
+    if (pwd != NULL)
+    {
+        if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+            pam_syslog(pamh, LOG_ERR,
+                       "Unable to change UID to %d temporarily\n",
+                       pwd->pw_uid);
+            retval = PAM_SESSION_ERR;
+            goto finished;
+        }
+        if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+            goto finished;
+        if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+            goto finished;
+        if (stat(flag, &s) != 0)
+        {
+            display_file(pamh, "/etc/legal");
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                     S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            if (f>=0) close(f);
+        }
+        finished:
+        if (pam_modutil_regain_priv(pamh, &privs)) {
+            pam_syslog(pamh, LOG_ERR,
+                       "Unable to change UID back to %d\n", privs.old_uid);
+            retval = PAM_SESSION_ERR;
+        }
+        _pam_drop(flag);
+        _pam_drop(dir);
+    } else {
+        return retval;
+    }
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.2647 ndg-httpsclient 0.4.4

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1.2648 ininispan-commons 9.4.18.Final

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/**
 * Encodes and decodes to and from Base64 notation. <p/>
 * Change Log: <p/>
 * ul>
 * v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.</li>
 * v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>
 * v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
 * v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (int that you "OR" together).
 * v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed )
 * encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).</li>
 * v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them. 
 * v1.4 - Added helper methods to read/write files.
 * v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
 * v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
 * v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
 * v1.3.3 - Fixed I/O streams which were totally messed up.
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 * Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
 */
1.2649 minicom 2.7.1

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Modemu Version 0.0.1

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Miquel van Smoorenburg.

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    <email>sdouglas@redhat.com</email>
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* /opt/ws_local/PERMITS_SQL/1074946987_1596002093.09/0/jboss-classfilewriter-1.2.4-final-sources-1.jar/META-INF/maven/org.jboss.classfilewriter/jboss-classfilewriter/pom.xml

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1.2652 commons-collections 4.1

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1.2654 jboss-remoting 5.0.17.Final
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1.2658 netty-common 4.1.13.FINAL

1.2659 jackson-jaxrs 2.10.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.2660 protobuf-java 3.5.1
1.2661 opentelemetry-sdk 0.6.0

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 * Returns the registered value associated with this name and [@code null] version if any,
 * otherwise creates a new instance and associates it with the given name and [@code null]
 * version.
 *
 * @param instrumentationName the name of the instrumentation library.
 * @return the registered value associated with this name and [@code null] version.
 */

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1.2662 wildfly-clustering-ejb-infinispan

19.1.0.Final

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1.2663 su-exec 0.2-r1

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1.2664 python 3.7.9

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.2668 hazelcast 3.8.4
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package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {
        return "<all actions>";
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionsCollection();
    }

    @Override
    public String toString() {
        return "<allow all permissions>";
    }

    @Override
    public boolean equals(Object obj) {
        return obj instanceof AllPermissions;
    }

    @Override
    public boolean instanceof(Class<?> clazz) {
        return clazz.getName().equals("com.hazelcast.security.permission.AllPermissions");
    }

    public enum AllPermissionsCollection implements PermissionCollection {
        INSTANCE {
            @Override
            public Enumeration<Permission> elements() {
                return Collections.enumeration(new Permission[]{new AllPermissions(), new AllPermissionsCollection()});
            }
        };
    }
}

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 */
public int hashCode() {
    return 111;
}

public static final class AllPermissionsCollection extends PermissionCollection {
    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

    @Override
    public boolean implies(Permission permission) {
        return all;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            boolean more = all;

            @Override
            public boolean hasMoreElements() {
                return more;
            }

            @Override
            public Permission nextElement() {
                more = false;
                return ALL_PERMISSIONS;
            }
        };
    }

    @Override
    public int hashCode() {
        return all ? 13 : -13;
    }
@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

@Override
public String toString() {
    return "<allow all permissions>";
}

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 */

package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {
    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;
public QueuePermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_ADD.equals(action)) {
            mask |= ADD;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}

package com.hazelcast.security.permission;

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 */
public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_INDEX.equals(action)) {
                mask |= INDEX;
            } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
                mask |= INTERCEPT;
            }
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            }
        }

        return mask;
    }
}

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 */
package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = 0;

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }

        return mask;
    }

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     */

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = 0;

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }

        return mask;
    }

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     */
int mask = NONE;
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }
    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;
*/

package com.hazelcast.security.permission;

import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;

import java.security.Permission;

/**
 * TODO: Object Permission
 */
public abstract class InstancePermission extends ClusterPermission {
    protected static final int NONE = 0;
    protected static final int CREATE = 1;
protected static final int DESTROY = 2;
private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();
protected final int mask;
protected final String actions;
public InstancePermission(String name, String... actions) {
super(name);
if (name == null || "".equals(name)) {
throw new IllegalArgumentException("Permission name is mandatory!");
}
mask = initMask(actions);
final StringBuilder s = new StringBuilder();
for (String action : actions) {
s.append(action).append(" ");
}
this.actions = s.toString();
}
/**
* init mask
*/
protected abstract int initMask(String[] actions);
@Override
public boolean implies(Permission permission) {
if (this.getClass() != permission.getClass()) {
return false;
}
InstancePermission that = (InstancePermission) permission;
boolean maskTest = ((this.mask & that.mask) == that.mask);
if (!maskTest) {
return false;
}
return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}
@Override
public String getActions() {
return actions;
}

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@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    if (mask != other.mask) {
        return false;
    }
    return true;
}
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 */
package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }

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*/

package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

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*/

package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {
    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}

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package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
                mask |= PUBLISH;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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     * limitations under the License.
     */
}
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    @Override
    public void add(Permission permission) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass())) || (permission instanceof ClusterPermission);
        if (shouldAdd && !implies(permission)) {
            perms.add(permission);
        }
    }
}
public void add(PermissionCollection permissions) {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    if (permissions instanceof ClusterPermissionCollection) {
        for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
            add(p);
        }
    }
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
    setReadOnly();
}

@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}

return Collections.unmodifiableSet(perms);
}

package com.hazelcast.security.permission;

import java.security.Permission;
import java.util.HashMap;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

public final class ActionConstants {

  public static final String ACTION_ALL = "all";
  public static final String ACTION_CREATE = "create";
  public static final String ACTION_DESTROY = "destroy";
  public static final String ACTION_MODIFY = "modify";
  public static final String ACTION_READ = "read";
  public static final String ACTION_REMOVE = "remove";
  public static final String ACTION_LOCK = "lock";
  public static final String ACTION_LISTEN = "listen";
  public static final String ACTION_RELEASE = "release";
  public static final String ACTION_ACQUIRE = "acquire";
  public static final String ACTION_PUT = "put";
  public static final String ACTION_ADD = "add";
  public static final String ACTION_INDEX = "index";
  public static final String ACTION_INTERCEPT = "intercept";
  public static final String ACTION_PUBLISH = "publish";
  public static final String ACTION_AGGREGATE = "aggregate";
  public static final String ACTION_PROJECTION = "projection";

  public static final String LISTENER_INSTANCE = "instance";
  public static final String LISTENER_MEMBER = "member";
  public static final String LISTENER_MIGRATION = "migration";

  private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String,
  PermissionFactory>();

  static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
      @Override
      public Permission create(String name, String... actions) {
        return new QueuePermission(name, actions);
      }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
      @Override
      public Permission create(String name, String... actions) {
        return new MapPermission(name, actions);
      }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
      @Override
      public Permission create(String name, String... actions) {
        return new MultiMapPermission(name, actions);
      }
    });
  }
}
PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ListPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SetPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorServicePermission(name, actions);
    }
});
return new CardinalityEstimatorPermission(name, actions);

private ActionConstants() {
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 */

public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: "+ serviceName);
    }

    return permissionFactory.create(name, actions);
}

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 */

package com.hazelcast.security.permission;
public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
                mask |= ACQUIRE;
            } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
                mask |= RELEASE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }

        return mask;
    }

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package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}

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package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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     */
package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {

    }
}
return false;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        @Override
        public boolean hasMoreElements() {
            return false;
        }

        @Override
        public Permission nextElement() {
            return null;
        }
    };
}

@Override
public int hashCode() {
    return 37;
}

@Override
public String toString() {
    return "<deny all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}

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*/
package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}
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*/

package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}
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package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashcode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
            hashcode = result;
        }
        return hashcode;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null || getClass() != obj.getClass()) {
            return false;
        }
        ClusterPermission other = (ClusterPermission) obj;
        if (hashcode != other.hashcode) {
            return false;
        }
        return true;
    }
}
if (this == obj) {
    return true;
}
if (obj == null) {
    return false;
}
if (getClass() != obj.getClass()) {
    return false;
}
ClusterPermission other = (ClusterPermission) obj;
if (getName() == null && other.getName() != null) {
    return false;
}
if (!getName().equals(other.getName())) {
    return false;
}
return true;
}

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/**
* Contains all the security permissions
*/
package com.hazelcast.security.permission;

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*
package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountDownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            }
        }
        return mask;
    }

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}
package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

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package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

1.2669 utils 1.3.1

1.2670 fdisk 2.32.1
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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6. As an exception to the Sections above, you may also combine or
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     Sections 1 and 2 above); and, if the work is an executable linked
     with the Library, with the complete machine-readable “work that
     uses the Library”, as object code and/or source code, so that the
     user can modify the Library and then relink to produce a modified
     executable containing the modified Library. (It is understood
     that the user who changes the contents of definitions files in the
     Library will not necessarily be able to recompile the application
     to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
     Library. A suitable mechanism is one that (1) uses at run time a
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* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/Http2ClientStreamTransportState.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/ClientStream.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/CompositeReadableBuffer.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/MessageFramer.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/AbstractServerImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/GrpcUtil.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-jar/io/grpc/internal/ClientStreamListener.java
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* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
jar/io/grpc/inprocess/InProcessServer.java
* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
jar/io/grpc/inprocess/InProcessChannelBuilder.java

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  jar/io/grpc/internal/ConnectivityStateManager.java
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  jar/io/grpc/internal/ClientTransport.java
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* /opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
  jar/io/grpc/internal/PickSubchannelArgsImpl.java
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jar/io/grpc/internal/MetadataApplierImpl.java
*/opt/ws_local/PERMITS_SQL/1083457158_1598192195.0/0/grpc-core-1-30-2-sources-
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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
  derived from the ones in the Monotone project, revision
  3a0982da308228d796df35f98d787c5cfff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
 admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
extcept the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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Last updated: 2009-02-28

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1.2710 eddsa 0.3.0

1.2711 bcel 2.7.2

1.2711.1 Available under license:

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 *    http://www.apache.org/licenses/LICENSE-2.0
 * */
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version {

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
public static String getVersion() {
    return getProduct() + " " + getImplementationLanguage() + " "
        + getMajorVersionNum() + "." + getReleaseVersionNum() + "." 
        + (getDevelopmentVersionNum() > 0) ?
            ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])


/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a significant, externally apparent enhancement from the previous release. 'n' represents the n'th version.
 * Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg, implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
return @version.RELEASE@;
}
/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
/**
* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development drop
* of a new release.
* Development drops are works in progress towards a
* completed, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
*/
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

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*/
/**
/**
*This is a special exception that is used to stop parsing when
*search for an element. For instance, when searching for xml:stylesheet
*PIs, it is used to stop the parse once the document element is found.
*@see StylesheetPIHandler
*@xsl.usage internal
*/

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package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */

public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 */

@return String denoting our current version
public static String getVersion()
{
    return getProduct() + "+getImplementationLanguage()+" "
    +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
    +( (getDevelopmentVersionNum() > 0) ?
    ('D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 *
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
/**
 * Release Number.
 * Release number. This changes when:
 *   - a new set of functionality is to be added, eg,
 *     implementation of a new W3C specification.
 *   - API or behaviour change.
 *   - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *    drop applied to a specific release and contains
 *    fixes for defects reported. It maintains compatibility
 *    with the release and contains no API changes.
 *    When missing, it designates the final and complete
 *    development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *    a specific release. D01 is the first development drop
 *    of a new release.
 *    Development drops are works in progress towards a
 *    completed, final release. A specific development drop
 *    may not completely implement all aspects of a new
 *    feature, which may take several development drops to
 *    complete. At the point of the final drop for the
 *    release, the D suffix will be omitted.
 *    Each 'D' drops can contain functional enhancements as
 *    well as defect fixes. 'D' drops may not be as stable as
 *    the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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*/

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

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 */

// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java
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 */

// Proprietary
/** The 'document-location()' id (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/compiler/FunctionTable.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/output_html.properties

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package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC _xsltc;

  /**
   * String representation of the expression being parsed.
   */
  private String _expression;
private int _lineNumber = 0;

public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
  _parser = parser;
  _xsltc = parser.getXSLTC();
  _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
  return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
  return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
  return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
  _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
  _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
  _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "[uri]:*" and "[uri]:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "[@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 */
simplifies the grouping of patterns in the Mode class. For this
* expansion to be correct, the priority of the pattern/template must be
* set to -0.25 (when no other predicates are present).
*/

public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) { // "*/
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
    }
    else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*") ? -1 : _xslt.registerNamespacePrefix(name));
        }
        else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
            if (uri != null && (local.equals("*") || local.equals("@*")) +
                if (predicates == null) {
                    predicates = new Vector(2);
                }
                else {
                    predicates.add(
                        new Predicate(
                            new EqualityExpr(Operators.EQ,
                                new NamespaceUriCall(namespace_uri),
                                new LiteralExpr(uri))));
        }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
        new Predicate(
            new EqualityExpr(Operators.EQ,
                new NamespaceUriCall(namespace_uri),
                new LiteralExpr(uri))));
    }

}
if (local.equals("")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
        NodeTest.ELEMENT;
} else if (local.equals("@")) {
    nodeType = NodeTest.ATTRIBUTE;
} else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) :
    _xslt.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }

    return result;
}

public int findNodeType(int axis, Object test) {
    if (test == null) {  // *
        return (axis == Axis.ATTRIBUTE) ?
            NodeTest.ATTRIBUTE :
                (axis == Axis.NAMESPACE) ? -1 :
            NodeTest.ELEMENT;
    } else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    } else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1 :
                _xslt.registerNamespacePrefix(name);
        }
        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();

            if (local.equals("")) {
                return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                    NodeTest.ELEMENT;
            }
        }
    }
else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
}

return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) :
    _xslt.registerElement(name);
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external    Set to <tt>true</tt> if this expression is
 *                     compiled in a separate module.
 * *
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 *
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}
public final void addError(ErrorMsg error) {
    _parser.reportError(Converters.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(Converters.SYNTAX_ERR, _lineNumber,
    _expression);
    _parser.reportError(Converters.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    } else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    } else {
        addError(new ErrorMsg(Converters.INTERNAL_ERR, "XPathParser.insertStep");
        return rlp;
    }
}

    /**
     * Returns true if the axis applies to elements only. The axes
     * child, attribute, namespace, descendant result in non-empty
     * nodesets only if the context node is of type element.
     */
    public boolean isElementAxis(int axis) {
        return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
    }
}:

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal StepPattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLOM;

start with TopLevel;
TopLevel ::= PATTERN Pattern:pattern
   {: RESULT = pattern; :}

   | EXPRESSION Expr:expr
   {: RESULT = expr. :};

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
   {: RESULT = lpp; :}

   | LocationPathPattern:lpp VBAR Pattern:p
   {: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH
   {: RESULT = new AbsolutePathPattern(null); :}

   | SLASH RelativePathPattern:rpp
   {: RESULT = new AbsolutePathPattern(rpp); :}

   | IdKeyPattern:ikp
   {: RESULT = ikp; :}

   | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
   {: RESULT = new ParentPattern(ikp, rpp); :}

   | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
   {: RESULT = new AncestorPattern(ikp, rpp); :}

   | DSLASH RelativePathPattern:rpp
   {: RESULT = new AncestorPattern(rpp); :}

   | RelativePathPattern:rpp
   {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
   {: RESULT = new IdPattern(l);
     parser.setHasIdCall(true);
   :}

   | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
   {: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
   {: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
StepPattern ::= NodeTestPattern:nt

| NodeTestPattern:nt Predicates:pp
| : RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); : |

| ProcessingInstructionPattern:pip
| : RESULT = pip; : |

| ProcessingInstructionPattern:pip Predicates:pp
| : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : |

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
| : RESULT = parser.createStepPattern(axis.intValue(), nt, null); : |

| ChildOrAttributeAxisSpecifier:axis
| NodeTestPattern:nt Predicates:pp
| : RESULT = parser.createStepPattern(axis.intValue(), nt, pp); : |

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
| : RESULT = pip; // TODO: report error if axis is attribute
| : |

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
| Predicates:pp
| : // TODO: report error if axis is attribute
| RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
| : |
NameTestPattern ::= STAR
{: RESULT = null; :}

QName:qn
{: RESULT = qn; :}

ChildOrAttributeAxisSpecifier ::= ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

CHILD DCOLON
{: RESULT = new Integer(Axis.CHILD); :}

ATTRIBUTE DCOLON
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
{: Vector temp = new Vector();
 temp.addElement(p);
 RESULT = temp;
 :}

Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e); :};

/* --------------------------- Expressions --------------------------- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};
OrExpr ::= AndExpr:ae
{} : RESULT = ae; :{}

| OrExpr:oe OR AndExpr:ae
{} : RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :{};

AndExpr ::= EqualityExpr:ee
{} : RESULT = ee; :{}

| AndExpr:ae AND EqualityExpr:ee
{} : RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :{};

EqualityExpr ::= RelationalExpr:re
{} : RESULT = re; :{}

| EqualityExpr:ee EQ RelationalExpr:re
{} : RESULT = new EqualityExpr(Operators.EQ, ee, re); :{}

| EqualityExpr:ee NE RelationalExpr:re
{} : RESULT = new EqualityExpr(Operators.NE, ee, re); :{};

RelationalExpr ::= AdditiveExpr:ae
{} : RESULT = ae; :{}

| RelationalExpr:re LT AdditiveExpr:ae
{} : RESULT = new RelationalExpr(Operators.LT, re, ae); :{}

| RelationalExpr:re GT AdditiveExpr:ae
{} : RESULT = new RelationalExpr(Operators.GT, re, ae); :{}

| RelationalExpr:re LE AdditiveExpr:ae
{} : RESULT = new RelationalExpr(Operators.LE, re, ae); :{}

| RelationalExpr:re GE AdditiveExpr:ae
{} : RESULT = new RelationalExpr(Operators.GE, re, ae); :{};

AdditiveExpr ::= MultiplicativeExpr:me
{} : RESULT = me; :{}

| AdditiveExpr:ae PLUS MultiplicativeExpr:me
{} : RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :{}

| AdditiveExpr:ae MINUS MultiplicativeExpr:me
{} : RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :{}

MultiplicativeExpr ::= UnaryExpr:ue
{} : RESULT = ue; :{}

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MultiplicativeExpr:me MULT UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

| MultiplicativeExpr:me DIV UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

| MultiplicativeExpr:me MOD UnaryExpr:ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
{: RESULT = ue; :}

| MINUS UnaryExpr:ue
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
{: RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
{: RESULT = lp; :}

| FilterExpr:fexp
{: RESULT = fexp; :}

| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{: // Expand//' into '/descendant-or-self::node()/' or
  // into /descendant-or-self::*/
  // int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &
    parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  FilterParentPath fpp = new FilterParentPath(fexp, step);
  fpp = new FilterParentPath(fpp, rlp);
  if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
  }
RESULT = fpp;
};

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}
| AbsoluteLocationPath:alp
{: RESULT = alp; :};

RelativeLocationPath ::= Step:step
{: RESULT = step; :}
| RelativeLocationPath:rlp SLASH Step:step
{: if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
   RESULT = step; // Remove './' from the middle
} else if (((Step) step).isAbbreviatedDot()) {
   RESULT = rlp; // Remove '/.' from the end
} else {
   RESULT =
   new ParentLocationPath((RelativeLocationPath) rlp, step);
}
:}
| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
{: RESULT = new AbsoluteLocationPath(); :}
| SLASH RelativeLocationPath:rlp
{: RESULT = new AbsoluteLocationPath(rlp); :}
| AbbreviatedAbsoluteLocationPath:aalp
{: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{: final Step right = (Step)step;
   final int axis = right.getAxis();
   final int type = right.getNodeType();
   final Vector predicates = right.getPredicates();
   if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
      // Compress '/child:E' into 'descendant::E' - if possible

}
if (predicates == null) {
        right.setAxis(Axis.DESCENDANT);
        if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
            RESULT = right;
        } else {
            // Expand 'rlp//child::E' into 'rlp/descendant::E'
            RelativeLocationPath left = (RelativeLocationPath) rlp;
            RESULT = new ParentLocationPath(left, right);
        }
    } else {
        // Expand './step' -> 'descendant-or-self::*/step'
        if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
            Step left = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
            RESULT = new ParentLocationPath(left, right);
        } else {
            // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
            RelativeLocationPath left = (RelativeLocationPath) rlp;
            Step mid = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
            ParentLocationPath ppl = new ParentLocationPath(mid, right);
            RESULT = new ParentLocationPath(left, ppl);
        }
    }
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
        RelativeLocationPath left = (RelativeLocationPath) rlp;
        Step middle = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(middle, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
        RelativeLocationPath left = (RelativeLocationPath) rlp;
        Step middle = new Step(Axis.DESCENDANTORSELF, DOM.NO_TYPE, null);
        ParentLocationPath ppl = new ParentLocationPath(middle, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
};

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
}

Step ::= NodeTest:ntest
{: 
    if (ntest instanceof Step) {
        RESULT = (Step)ntest;
    } 
    else {
        RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), null);
    }
}

| NodeTest:ntest Predicates:pp
{: 
    if (ntest instanceof Step) {
        Step step = (Step)ntest;
        step.addPredicates(pp);
        RESULT = (Step)ntest;
    } 
    else {
        RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), pp);
    }
}

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
{: 
    RESULT = new Step(axis.intValue(), parser.findNodeType(axis.intValue(), ntest), pp);
}

| AxisSpecifier:axis NodeTest:ntest
{ : RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    null); }

| AbbreviatedStep:abbrev
{ : RESULT = abbrev; : };

AxisSpecifier ::= AxisName:an DCOLON
{ : RESULT = an; : }

| ATSIGN
{ : RESULT = new Integer(Axis.ATTRIBUTE); : };

AxisName ::=    ANCESTOR
{ : RESULT = new Integer(Axis.ANCESTOR); : }

| ANCESTORORSELF
{ : RESULT = new Integer(Axis.ANCESTORORSELF); : }

| ATTRIBUTE
{ : RESULT = new Integer(Axis.ATTRIBUTE); : }

| CHILD
{ : RESULT = new Integer(Axis.CHILD); : }

| DESCENDANT
{ : RESULT = new Integer(Axis.DESCENDANT); : }

| DESCENDANTORSELF
{ : RESULT = new Integer(Axis.DESCENDANTORSELF); : }

| FOLLOWING
{ : RESULT = new Integer(Axis.FOLLOWING); : }

| FOLLOWINGSIBLING
{ : RESULT = new Integer(Axis.FOLLOWINGSIBLING); : }

| NAMESPACE
{ : RESULT = new Integer(Axis.NAMESPACE); : }

| PARENT
{ : RESULT = new Integer(Axis.PARENT); : }

| PRECEDING
{ : RESULT = new Integer(Axis.PRECEDING); : }

| PRECEDINGSIBLING
AbbreviatedStep ::= DOT
  { : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : }
| DDOT
  { : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : }

FilterExpr ::=  PrimaryExpr:primary
  { : RESULT = primary; : }
| PrimaryExpr:primary Predicates:pp
  { : RESULT = new FilterExpr(primary, pp); : }

PrimaryExpr ::= VariableReference:vr
  { : RESULT = vr; : }
| LPAREN Expr:ex RPAREN
  { : RESULT = ex; : }

| Literal:string
  { :
    /*
    * If the string appears to have the syntax of a QName, store
    * namespace info in the literal expression. This is used for
    * element-available and function-available functions, among
    * others. Also, the default namespace must be ignored.
    */
    String namespace = null;
    final int index = string.lastIndexOf(':');

    if (index > 0) {
      final String prefix = string.substring(0, index);
      namespace = parser._symbolTable.lookupNamespace(prefix);
    }
    RESULT = (namespace == null) ? new LiteralExpr(string)
      : new LiteralExpr(string, namespace);
  : }
| INT:num
  { :
    long value = num.longValue();
    if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
      RESULT = new RealExpr(value);
    }
  : }
else {
    if (num.doubleValue() == -0)
        RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
        RESULT = new IntExpr(num.intValue());
    else if (num.doubleValue() == 0.0)
        RESULT = new RealExpr(num.doubleValue());
    else
        RESULT = new IntExpr(num.intValue());
}

<table>
<thead>
<tr>
<th>REAL: num</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = new RealExpr(num.doubleValue()); :</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FunctionCall: fc</th>
</tr>
</thead>
<tbody>
<tr>
<td>: RESULT = fc; :</td>
</tr>
</tbody>
</table>

VariableReference ::= DOLLAR VariableName: varName

: // An empty qname prefix for a variable or parameter reference
// should map to the null namespace and not the default URI.
SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    }
    else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    }
    else {
        RESULT = new UnresolvedRef(varName);
    }
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}

}:;

FunctionCall ::= FunctionName: fname LPAREN RPAREN

: //
if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new CurrentCall(fname);
}
else {
    RESULT = new UnresolvedRef(varName);
}

}:;
RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
| { |
|     if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) { |
|         RESULT = new ConcatCall(fname, argl);
|     } |
|     else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) { |
|         RESULT = new NumberCall(fname, argl);
|     } |
| } |
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Roles.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
);

NonemptyArgumentList ::= Argument:arg

|:
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
|:

| Argument:arg COMMA NonemptyArgumentList:argl
    |
    |
    |
    |:
    | argl.insertElementAt(arg, 0); RESULT = argl; |
|:

FunctionName ::= QName:fname

|:
    RESULT = fname;
|:

VariableName ::= QName:vname

|:
    RESULT = vname;
Argument ::= Expr:ex
    {: RESULT = ex; :};

NodeTest ::= NameTest:nt
    {: RESULT = nt; :}

    | NODE
    {: RESULT = new Integer(NodeTest.ANODE); :}

    | TEXT
    {: RESULT = new Integer(NodeTest.TEXT); :}

    | COMMENT
    {: RESULT = new Integer(NodeTest.COMMENT); :}

    | PIPARAM LPAREN Literal:l RPAREN
    {:
        QName name = parser.getQNameIgnoreDefaultNs("name");
        Expression exp = new EqualityExpr(Operators.EQ,
            new NameCall(name),
            new LiteralExpr(l));
        Vector predicates = new Vector();
        predicates.addElement(new Predicate(exp));
        RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
    :}

    | PI
    {: RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
    {: RESULT = null; :}

    | QName:qn
    {: RESULT = qn; :};

QName ::= QNAME:qname
    {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

    | DIV
    {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

    | MOD
    {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

    | KEY
    {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}
| ANCESTOR
| {} : RESULT = parser.getQNameIgnoreDefaultNs("child"); |

| ANCESTORORSELF
| {} : RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); |

| ATTRIBUTE
| {} : RESULT = parser.getQNameIgnoreDefaultNs("attribute"); |

| CHILD
| {} : RESULT = parser.getQNameIgnoreDefaultNs("child"); |

| DESCENDANT
| {} : RESULT = parser.getQNameIgnoreDefaultNs("descendant"); |

| DESCENDANTORSELF
| {} : RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); |

| FOLLOWING
| {} : RESULT = parser.getQNameIgnoreDefaultNs("following"); |

| FOLLOWINGSIBLING
| {} : RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); |

| NAMESPACE
| {} : RESULT = parser.getQNameIgnoreDefaultNs("namespace"); |

| PARENT
| {} : RESULT = parser.getQNameIgnoreDefaultNs("parent"); |

| PRECEDING
| {} : RESULT = parser.getQNameIgnoreDefaultNs("preceding"); |

| PRECEDINGSIBLING
| {} : RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); |

| SELF
| {} : RESULT = parser.getQNameIgnoreDefaultNs("self"); |

| ID
| {} : RESULT = parser.getQNameIgnoreDefaultNs("id"); |

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.cup
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 */

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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* /
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
* /

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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* /
*/

$Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
* @author Morten Jorgensen
* */
package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%%
cup
unicode
class XPathLexer
yyeof

{
   int last;

   void initialize() {
      last = -1;
   }

   static boolean isWhitespace(int c) {
      return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
   }

   /**
    * If symbol is not followed by '::' or '(', then treat it as a
    * name instead of an axis or function (Jira-1912).
    */
   Symbol disambiguateAxisOrFunction(int ss) throws Exception {
      // Peek in the input buffer without changing the internal state
      int index = yy_buffer_index;

      // Skip whitespace
      while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
         index++;
      }

      // If end of buffer, can't disambiguate :
      if (index >= yy_buffer_read) {
         // Can't disambiguate, so return as symbol
         return new Symbol(ss);
      }

      // Return symbol if next token is '::' or '(
      return (yy_buffer[index] == ':' && yy_buffer[index+1] == ')' ||
               yy_buffer[index] == '(' ?
               newSymbol(ss) : newSymbol(sym.QNAME, yytext()));
   }

   /**
    * If symbol is first token or if it follows any of the operators
    * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
    */

   ...
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
            

```
case sym.MULT:  
case sym.SLASH:  
case sym.DSLASH:  
case sym.VBAR:  
case sym.PLUS:  
case sym.MINUS:  
case sym.EQ:  
case sym.NE:  
case sym.LT:  
case sym.LE:  
case sym.GT:  
case sym.GE:  
    return newSymbol(sym.STAR);  
}  
return newSymbol(sym.MULT);  
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
%
%
%eofval{
    return newSymbol(sym.EOF);
%eofval%

%yylexthrow{
    Exception
    %yylexthrow

    Letter={BaseChar}[[Ideographic]
NCName=(\[Letter]\[^\-_\]\[NCNameStartChar\])\((\[NCNameChar\])*\)

NCNameChar=\[Letter\]|\[Digit\]|\[^\-_\]\[CombingChar\]|\[Extender\]|\[NCNameStartChar\]|\u00B7 | \[\u0300-\u036F\] | \[\u203F-\u2040\] | \[\u0130-\u0136\]

NCNameStartChar=\[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u02FF\u0370-\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFF\] | \u005F | \[\u005F\]

HighSurrogate=\[\uD800-\uDBFF\]

LowSurrogate=\[\uDC00-\uDFFF\]

```
/*" { return disambiguateStar(); }
"/" { return newSymbol(sym.SLASH); }
"*" { return newSymbol(sym.PLUS); }
".-" { return newSymbol(sym.MINUS); }
"div" { return disambiguateOperator(sym.DIV); }
"mod" { return disambiguateOperator(sym.MOD); }
":." { return newSymbol(sym.DCOLON); }
"," { return newSymbol(sym.COMMA); }
"@" { return newSymbol(sym.ATSIGN); }
".." { return newSymbol(sym.DDOT); }
"[" { return newSymbol(sym.VBAR); }
"$" { return newSymbol(sym.DOLLAR); }
"//" { return newSymbol(sym.DSLASH); }
"=" { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"<" { return newSymbol(sym.LT); }
">" { return newSymbol(sym.GT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text\+[\u00a0\u202f]+""()" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node\+[\u00a0\u202f]+""()" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment\+[\u00a0\u202f]+""()" { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIParam); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction\+[\u00a0\u202f]+""()" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
```
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*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 */
* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.

public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes.
 * When missing, it designates the final and complete development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.
 * Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.
 */
public static final int DEVELOPMENT = 0;
* Version String like <CODE>"<B>Xalan</B> <B>Language</B> <CODE>
* <P>Semantics of the version string are identical to the Xerces project.</P>
*/

public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" 
+VERSION+."+RELEASE+".
+(DEVELOPMENT > 0 ? ('D'+DEVELOPMENT) 
 : (""+MAINTENANCE));

}
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 */

// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/message/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/axes/WalkingIteratorSorted.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolver.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/StringArrayWrapper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_en.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sk.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorPreserveSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_hu.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/compiler/Compiler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Compiler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_tr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/SuballocatedByteVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/NotEquals.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_ko.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionNamespacesManager.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_ja.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnionPathExpr.java

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jar/org/apache/xml/serializer/dom3/DOM3SerializerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceListenerEx3.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToXMLSAXHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/TopLevelElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Copy.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerJava.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ProcessorStripSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/RealExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XMLNSDecl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/template/Output.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Closure.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/Utils.java
jar/org/apache/xalan/transformer/Counter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/DOMAdapter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/AnyNodeCounter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/getopt/MissingOptArgException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLSAXHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler.getBooleanExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/JNDIConnectionPool.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/res/XPATHErrorResources.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/FilteredStepIterator.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;'&amp;#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
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Bill Fenner <fenner@research.att.com>
Fulvio Risso <risso@polito.it>
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Hannes Gredler <hannes@juniper.net>
Jun-ichiro itojun Hagino <itojun@iijlab.net>
Michael Richardson <mcr@sandelman.ottawa.on.ca>

Additional people who have contributed patches:

Alan Bawden <Alan@LCS.MIT.EDU>
Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>
Albert Chin <china@thewrittenword.com>
Andrew Brown <atatat@atatdot.net>
Antti Kantee <pooka@netbsd.org>
Arkadiusz Miskiewicz <misiek@pld.org.pl>
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bazel/src/crypto/x509v3/v3_pku.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/pkcs8/p5_pbev2.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/x509/x509spki.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/x509v3/v3_skey.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/x509v3/v3_enum.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/x509v3/v3_bcons.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/pkcs8/internal.h
* /opt/ cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/pkcs8/pkcs8_x509.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/pkcs8/pkcs8.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/pkcs8/pkcs8.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/include/openssl/pkcs8.h

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/security_connector/ssl_utils_config.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/work_serializer.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/executor/threadpool.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/sync.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_idle/client_idle_filter.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/xds/xds_resolver.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/subchannel_interface.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/dns_resolver_selection.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/poller/eventmanager_libuv.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/work_serializer.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/security_connector/ssl_utils_config.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/global_config.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/security_connector/ssl_utils_config_env.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/global_config_custom.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/optional.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/span.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pkcs7/pkcs7_x509.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/rand_extra/rand_extra.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand/ctrdrbg.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/rand_extra/rand_extra.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/aes/internal.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/err/err/internal.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cipher_extra/e_aesgcmsiv.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bcm.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/is_fips.c
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/* adler32.c -- compute the Adler-32 checksum of a data stream
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_genn.c

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509cset.c  
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pem/pem_xaux.c  
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/pem/pem_x509.c  
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/bn.h
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*/opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/chacha/chacha.c
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bazel/src/crypto/evp/p_dsa_asn1.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/evp/print.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/evp/p_ec.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/evp/p_rsa.c
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Found in path(s):

* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/ecdsa.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/ecdsa_extra/ecdsa_asn1.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ecdsa/ecdsa.c

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/obj/obj_dat.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/nid.h

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/third_party/fiat/p256.c
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/* Only resume if the session's version matches the negotiated
 * version. */

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/ssl_session.cc

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/*
* Use the google proprietary format which is:
* { <kid1>: <x5091>, <kid2>: <x5092>, ... } */

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   * Copyright (C) 1995-2017 Jean-loup Gailly
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/cares/cares/ares_library_init.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/cares/cares/ares_iphlpapi.h

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/err/err.err.c
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/ext_dat.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/asn1/asn1_tasn_dec.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bio/bio_mem.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x509_lu.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509/x_attr.c
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/s3_lib.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/lockfree_event.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/lockfree_event.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/cares/cares/ares_parse_srv_reply.c
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/resolve_address.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/lb_policy/xds/xds.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/resolve_address_custom.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/xds/xds_client.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/alts/check_gcp_environment.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/iomgr_internal.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_credentials_options.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_credentials_options.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/timer.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/timer.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_credentials_options.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/timer.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/tls/grpc_tls_credentials_options.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/d1_pkt.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/d1_both.cc

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/dsa/dsa.c
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  *
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  * CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
  * tables for updating the shift register in one step with three exclusive-ors
  * instead of four steps with four exclusive-ors. This results in about a
  * factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
  */

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* /opt/cola/permissions/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/internal.h
* /opt/cola/permissions/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/scalar.c
* /opt/cola/permissions/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ec/felem.c
* /opt/cola/permissions/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/chacha/internal.h
* /opt/cola/permissions/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/handoff.cc
* /opt/cola/permissions/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/gcd_extra.c
* /opt/cola/permissions/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/bytestring/unicode.c
* /opt/cola/permissions/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/chacha/internal.h
* /opt/cola/permissions/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-
bazel/src/crypto/fipsmodule/ec/simple_mul.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/dtls/internal.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cpu-aarch64-fuchsia.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cpu-arm-linux.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/tls/internal.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cpu-aarch64-fuchsia.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/cpu-arm-linux.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/md5/internal.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/hrss/internal.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/hrss.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/e_os2.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/bn/div_extra.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/hrss/internal.h

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  /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/ecdh.h
  /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/ecdh/ecdh.c

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_win.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/thread_none.c

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bazel/src/crypto/fipsmodule/rand/internal.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/refcount_c11.c

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/http/client/http_client_filter.h
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Found in path(s):
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/address_sorting/address_sorting_windows.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/address_sorting/address_sorting_posix.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/address_sorting/address_sorting.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/address_sorting/include/address_sorting/address_sorting.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/address_sorting/address_sorting_internal.h

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/aead.h

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// Inspired by Daniel J. Bernstein's public domain nistp224 implementation
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/cares/cares/ares_library_init.c

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/* deflate.c -- compress data using the deflation algorithm 
 * Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler 
 * For conditions of distribution and use, see copyright notice in zlib.h 
 */

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/zlib/deflate.c

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/* gzread.c -- zlib functions for reading gzip files 
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 */

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/* inftrees.c -- generate Huffman trees for efficient decoding
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 */

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# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----
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A1UEBhMCQkUxGTAXBgNVBAoTEEdsb2JhbFNpZ24gbnYtc2ExEzADAgECAgIBAgIB
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Gz52LXNhMRAwDgYDVQQLEw9dSb290IENBMRswGQYDVQQDEExHbG9iYWxTaWdu
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# Subject: CN=Baltimore CyberTrust Root O=Baltimore OU=CyberTrust
# Label: "Baltimore CyberTrust Root"
# Serial: 33554617
-----BEGIN CERTIFICATE-----
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ksLI4xaNnmlCjQ44Y3ekQEe5+NauQrz4wHrQmz2NzQ/1/l6eYsH9HRCwBxsdrTLS
R914LtD+gwya9h617jZv/0eBHrNJELy7Zymp
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# SHA256 Fingerprint: 5086d17f01e760b5a3f7e47b32e1f55c1f94d3f588254b1a4a135d0e25e863a1d538182c0a6960f8ff97e1b3d389331c372f451d77
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# MD5 Fingerprint: f7:75:ab:29:ff:5b:4f:77:5e:ff:5f
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# Subject: CN=GeoTrust Universal CA O=GeoTrust Inc.
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bJxPgrP6ZKY7pXn3YUxadIwVvyQD8vIP/mRmuGNG2k+507Y+8ill8S5/iw=
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# Serial: 1289
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# SHA256 Fingerprint:
---

# BEGIN CERTIFICATE-----
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---END CERTIFICATE-----
ZWxkIENsYXNzIDlgQ2VydGlmaWNhdGlvBmRvIGluYy5hcy5uLi5vbGRhcHAuY29tLmFsbC5jZDc2MDQ5OTg3OTg3MzQ2NzUuY29tLmNybC5pZGRpdHN0eWxlLmNvbS5jb20=

---END CERTIFICATE-----

# Issuer: O=Government Root Certification Authority
# Subject: O=Government Root Certification Authority
# Label: "Taiwan GRCA"
# Serial: 4202307080778724159991140556527066870

-----BEGIN CERTIFICATE-----
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Open Source Used In SDWan 20.6.1  30248
MAMBAf8wHQYDVR0OBBYEFE+2kD+L9HAdSYhjoIAu9jZCvDM8GA1DwQYMBAA
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# Issuer: CN=DST Root CA X3 O=Digital Signature Trust Co.
# Subject: CN=DST Root CA X3 O=Digital Signature Trust Co.
# Label: "DST Root CA X3"
# Serial: 91299735575339955335919219626956803778155
# MD5 Fingerprint: 41:03:52:dc:0f:f7:50:1b:16:f0:02:8e:ba:6f:45:c5
------BEGIN CERTIFICATE------

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MSQwIgYDVQQKEwsCAFkEMBAAAwIBAgIwJq7qIMdMGLvAhAzANBgkgkhG9w0BAQUFADA/
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------END CERTIFICATE------

# Issuer: CN=SwissSign Gold CA - G2 O=SwissSign AG
# Subject: CN=SwissSign Gold CA - G2 O=SwissSign AG
# Label: "SwissSign Gold CA - G2"
# Serial: 13492815561806991280
------BEGIN CERTIFICATE------
MTE5NDA1NVowSDELMAkGA1UEBhMCVVMxIDAeBgNVBAsTF1NiY3VzZVRydXN0IENv
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3tHuauG51WHQqD0ZhW4KWMabwTW+MZMo5RxnN7SN5ShLHZ4swrhom0C7j=-----END CERTIFICATE-----

# Issuer: CN=Secure Global CA O=SecureTrust Corporation
# Subject: CN=Secure Global CA O=SecureTrust Corporation
# Label: "Secure Global CA"
# Serial: 9751836167731051554232119481456978597
-----BEGIN CERTIFICATE-----
Endorsed
# Label: "OISTE WISEKey Global Root GA"
# Serial: 86718877871133590008555911823548314
# SHA256 Fingerprint:
-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
# Issuer: CN=Certigna O=Dhimyotis
# Subject: CN=Certigna O=Dhimyotis
# Label: "Certigna"
# Serial: 18364802974209362175
# SHA1 Fingerprint:
-----END CERTIFICATE-----
# Issuer: CN=Certigna O=Dhimyotis
# Subject: CN=Certigna O=Dhimyotis
# Label: "Certigna"
# Serial: 18364802974209362175
# SHA1 Fingerprint:
-----END CERTIFICATE-----
# Issuer: CN=Certigna O=Dhimyotis
# Subject: CN=Certigna O=Dhimyotis
# Label: "Certigna"
# Serial: 18364802974209362175
# SHA1 Fingerprint:
---BEGIN CERTIFICATE-----
MIIFsDCCA5igAwIBAgIQFci9ZUdcr7iXAF7kBtK8nTANBgkqhkiG9w0BAQUFADBBe
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-----END CERTIFICATE-----
# Issuer: O=certSIGN OU=certSIGN ROOT CA
# Subject: O=certSIGN OU=certSIGN ROOT CA
# Label: "certSIGN ROOT CA"
# Serial: 35210227249154
-----END CERTIFICATE-----

---BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----
# Issuer: O=certSIGN OU=certSIGN ROOT CA
# Subject: O=certSIGN OU=certSIGN ROOT CA
# Label: "certSIGN ROOT CA"
# Serial: 28956088682735189655030529057352760477
Subject: CN=GlobalSign O=GlobalSign OU=GlobalSign Root CA - R3
Label: "GlobalSign Root CA - R3"
Serial: 4835703278459759426209954
SHA256 Fingerprint:

---BEGIN CERTIFICATE---
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---END CERTIFICATE---

---BEGIN CERTIFICATE---
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---END CERTIFICATE---

Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068
Label: "Autoridad de Certificacion Firmaprofesional CIF A62634068"
Serial: 604724297267253887
SHA256 Fingerprint:

---BEGIN CERTIFICATE---
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---END CERTIFICATE---
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-----END CERTIFICATE-----

# Issuer: CN=Starfield Root Certificate Authority - G2 O=Starfield Technologies, Inc.
# Subject: CN=Starfield Root Certificate Authority - G2 O=Starfield Technologies, Inc.
# Label: "Starfield Root Certificate Authority - G2"
# Serial: 0
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----

# Issuer: CN=Starfield Services Root Certificate Authority - G2 O=Starfield Technologies, Inc.
# Subject: CN=Starfield Services Root Certificate Authority - G2 O=Starfield Technologies, Inc.
# Label: "Starfield Services Root Certificate Authority - G2"
# Serial: 0
# SHA256 Fingerprint:
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# Issuer: O=SECOM Trust Systems CO.,LTD. OU=Security Communication RootCA2
# Subject: O=SECOM Trust Systems CO.,LTD. OU=Security Communication RootCA2
# Label: "Security Communication RootCA2"
# Serial: 0

-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----

# Issuer: CN=EC-ACC O=Agencia Catalana de Certificacio (NIF Q-0801176-I) OU=Serveis Publics de Certificacio/Vegeu https://www.catcert.net/verarrel (c)03/Jerarquia Entitats de Certificacio Catalanes
# Subject: CN=EC-ACC O=Agencia Catalana de Certificacio (NIF Q-0801176-I) OU=Serveis Publics de Certificacio
Certificacions/Vegeu https://www.catcert.net/verarrel (c)03/Jerarquia Entitats de Certificacions Catalanes
# Label: "EC-ACC"
# Serial: -2370157924755709139626551256250420749

-----BEGIN CERTIFICATE-----
MIIFVjCCBD6gAwIBAgIQ7is969Qh3sOYqwE893EATANBgkqhkiG9w0BAQUFAUQDADB
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9w0BAQEFAAOCAQ8AMIIBCgKCAQEAsyLHT+KXQpWIR4NA9h0X84NzJB5R85iKw5K/40C
vZcYCHyMkAqbWUZRkiFRICq2xmRJOoNB4d5b6Lqepjtt495d4jYRm4CgPuljbo737cCa
M4GA1UdEQQWMBSBEmVjX2FjY0BJyYXRjXZ动物园5mdADAPBGsNHVRMBMAF8EBTADAQH
/MA4GA1UdEQQWMBsBEmlVjX2FjY0BJyYXRjXZ动物园5mdADAPBGsNHVRMBMAF8EBTADAQH

# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011 O=Hellenic Academic and Research Institutions Cert. Authority
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011 O=Hellenic Academic and Research Institutions Cert. Authority
# Label: "Hellenic Academic and Research Institutions RootCA 2011"
# Serial: 0

-----END CERTIFICATE-----
Open Source Used In SDWan 20.6.1 30283

--- CERTIFICATE-----

# Issuer: O=Trustis Limited OU=Trustis FPS Root CA
# Subject: O=Trustis Limited OU=Trustis FPS Root CA
# Label: "Trustis FPS Root CA"
# Serial: 3605364037539903430472498897855367310553

BEGIN CERTIFICATE-----

MIIDZzCCAk+gAwIBAgIQGx+ttiD5JNM2a/h88YygWTANBkgkqhiG9w0BAQUFADBFBMQswCQYDVQQGEwJHQjEYMBYGA1UEChMPVHJ1c3RpcyBMaW1pdGVkMRwwGgYDVQQKEwJHQUExDTAzMTIyMzEyMTQwNloXDTI0MDEyMTExMzY1NFowRTELMAkGA1UEBhMCVHJ1c3RpcyBGUFMgUm9vdCBDQTCCASIwDQYJKoZIhvcNAQEFBQADggEBAH5Y//01GX2cGE+esCu8jowU/yyg2kdbw++BLa8F6nRIW/M+TgfHbcWzk881NVy2P3UnXwmWza+vkAMXBJV+JOCyinpXj9WV4s4NvdFGKwzZ5Bu0IWT1SKqM4sKuRAXEAsP41BY+Q75sdwyeQsh8tGD+pd+9Q8P9Vilpq0ND2HepfWhPbfnqFVO776h7CEf1tTl0+CP8HxVi0ptoGj4W10LBuAz+ytI8MYmHNVL9D73S2B2lp0uRrGXuh8GFjZBf3+6f9LHuftY5H+QK4R4EA5s5VpvFvIlKpdr7r7OnldzfYi6BxZCGcKQEN
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nh8GKjwStIsPml6k8Ka1n1nr57ZklnOvhMJKzRwuJicyYOXD
---END CERTIFICATE-----

--- Issuer: CN=QuoVadis Root CA 2 G3 O=QuoVadis Limited
--- Subject: CN=QuoVadis Root CA 2 G3 O=QuoVadis Limited
--- Label: "QuoVadis Root CA 2 G3"
--- Serial: 39015607945895925744613316926609962026824725800

-----BEGIN CERTIFICATE-----
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-----END CERTIFICATE-----

# Issuer: CN=QuoVadis Root CA 3 G3 O=QuoVadis Limited
# Subject: CN=QuoVadis Root CA 3 G3 O=QuoVadis Limited
# Label: "QuoVadis Root CA 3 G3"
# Serial: 268090761170461246399592515737224137089239581

-----BEGIN CERTIFICATE-----

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BgNVBAMTFMVF1b1ZbZGlzIFJvb3QgQ0EgMyBUZ29yZ2dvYiBvcmV0aW9zIENvbXBvd2Ug
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MjAxMTIyMDI0MzCgYQIDAQAB

-----END CERTIFICATE-----

# Issuer: CN=DigiCert Assured ID Root G2 O=DigiCert Inc
# Subject: CN=DigiCert Assured ID Root G2 O=DigiCert Inc
# Label: "DigiCert Assured ID Root G2"
# Serial: 15385348160840213938643033620894905419
Open Source Used In SDWan 20.6.1

30299

--- END CERTIFICATE ---

# Issuer: CN=DigiCert Trusted Root G4 O=DigiCert Inc OU=www.digicert.com
# Subject: CN=DigiCert Trusted Root G4 O=DigiCert Inc OU=www.digicert.com
# Label: "DigiCert Trusted Root G4"
# Serial: 7451500558977370777930084869016614236
# MD5 Fingerprint: e7:83:78:88:76:0d:77:5d:05:4e

--- BEGIN CERTIFICATE ---

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-----END CERTIFICATE-----
Open Source Used In SDWan 20.6.1

---BEGIN CERTIFICATE-----
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---END CERTIFICATE-----

# SHA256 Fingerprint:

# SHA256 Fingerprint:

---BEGIN CERTIFICATE-----
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---END CERTIFICATE-----
-----END CERTIFICATE-----

MIIGCzCCA/0gAwIBAgIIBAQBgwIBADANBgkqhkiG9w0BAQsFAAOCAQEAMIGGc1AlEUmgGAYGh0dHA6Ly9jYjE6MC4wLjAuMGsAMĪGIDMB0GA1UdDgQIBgMCBAEwHhcNMTcxNzYxNzYxNzEyWhcNMjcxNzYxNzYxNzEyWjCCENoXzEdMB8GA1UdDwEB/wQEAwIBBjAdBgNVHQ4EFgQUcRVnyMjJvXVd0vtA4GGqd83EkVAswDQYJKoZIhvcNAQELBQADggIBAHW7bVRLqhBYRjTyYtcWNl0XtVsyIe9tC5G8jH4OfpCiZMWMVdyhDBKg2mf+D+1hYc2Ryx+hfJftyp8iy/XnmsMsVMI

-----BEGIN CERTIFICATE-----

---END CERTIFICATE---
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015 O=Hellenic Academic and Research Institutions Cert. Authority
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015 O=Hellenic Academic and Research Institutions Cert. Authority
# Label: "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Serial: 0
# SHA256 Fingerprint:

# Issuer: CN=ISRG Root X1 O=Internet Security Research Group
# Subject: CN=ISRG Root X1 O=Internet Security Research Group
# Label: "ISRG Root X1"
# Serial: 17288692866979047606467024350416906120
# SHA256 Fingerprint:

# Issuer: CN=ISRG Root X1 O=Internet Security Research Group
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-----END CERTIFICATE-----

# Issuer: CN=Amazon Root CA 4 O=Amazon
# Subject: CN=Amazon Root CA 4 O=Amazon
# Label: "Amazon Root CA 4"
# Serial: 143266989758080763974150200630763877849284878
# SHA256 Fingerprint:
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-----END CERTIFICATE-----
# Issuer: CN=LuxTrust Global Root 2 O=LuxTrust S.A.
# Subject: CN=LuxTrust Global Root 2 O=LuxTrust S.A.
# Label: "LuxTrust Global Root 2"
# Serial: 5991433225734171239410583767881103058222489521
# MD5 Fingerprint: b2:0whxIdIA6GO9mi78DLxOeo9pcmBqNbIlbRXGbB/egqBeOc40O9X4ri83Bk
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-----END CERTIFICATE-----

# Issuer: CN=LuxTrust Global Root 2 O=LuxTrust S.A.
# Subject: CN=LuxTrust Global Root 2 O=LuxTrust S.A.
# Label: "LuxTrust Global Root 2"
# Serial: 5991433225734171239410583767881103058222489521
# MD5 Fingerprint: b2:0whxIdIA6GO9mi78DLxOeo9pcmBqNbIlbRXGbB/egqBeOc40O9X4ri83Bk
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-----END CERTIFICATE-----
---BEGIN CERTIFICATE-----

# Issuer: CN=OISTE WSeKey Global Root GC CA O=WSeKey OU=OISTE Foundation Endorsed
# Subject: CN=OISTE WSeKey Global Root GC CA O=WSeKey OU=OISTE Foundation Endorsed
# Label: "OISTE WSeKey Global Root GC CA"
# Serial: 44084345621038548146064804565436152554
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----

# Issuer: CN=GTS Root R1 O=Google Trust Services LLC
# Subject: CN=GTS Root R1 O=Google Trust Services LLC
# Label: "GTS Root R1"
# Serial: 1465871758715620614397587180265552097
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----

# Issuer: CN=OZ7BN9uBmm23goJSFmH63sUYHpkqmlID75HHTowY3WzvUy2MmeFe8nIl+z1T1vWfs
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5hpbxqCo8YLoRT5s1gLXcmBeDBVrJpBA=

-----END CERTIFICATE-----
UB+K+wblwhn0A==

-----END CERTIFICATE-----

# Issuer: CN=UCA Extended Validation Root O=UniTrust
# Subject: CN=UCA Extended Validation Root O=UniTrust
# Label: "UCA Extended Validation Root"
# Serial: 106100277556486529736695987978573607008
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----

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-----END CERTIFICATE-----

# Issuer: CN=Certigna Root CA O=Dhimyotis
# Subject: CN=Certigna Root CA O=Dhimyotis
# Label: "Certigna Root CA"
# Serial: 269714418870597844693661054334862075617
# Subject: CN=emSign Root CA - C1 O=eMudhra Inc OU=emSign PKI
# Label: "emSign Root CA - C1"
# Serial: 82551029661331600495508
# SHA256 Fingerprint:

-----BEGIN CERTIFICATE-----
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# Issuer: CN=emSign ECC Root CA - C3 O=eMudhra Inc OU=emSign PKI
# Subject: CN=emSign ECC Root CA - C3 O=eMudhra Inc OU=emSign PKI
# Label: "emSign ECC Root CA - C3"
# Serial: 58294871064506000014504
# SHA256 Fingerprint:

-----END CERTIFICATE-----
No license file was found, but licenses were detected in source scan.

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/dh/dh_asn1.c

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_sxnet.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_info.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/x509v3/v3_lib.c

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*
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_timeout.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_getenv.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_strcasecmp.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_mkquery.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_send.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_strcasecmp.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_gethostbyaddr.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares__close_sockets.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_strdup.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_writev.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_search.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-l-28-0-gem/data-tar-gz/third_party/cares/cares/ares_expand_string.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-targ-
gz/third_party/cares/cares/ares_parse_ns_reply.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-targ-
gz/third_party/cares/cares/ares_strdup.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-targ-
gz/third_party/cares/cares/ares_strerror.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-targ-
gz/third_party/cares/cares/ares_free_hostent.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-targ-
gz/third_party/cares/cares/ares_parse_a_reply.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-targ-
gz/third_party/cares/cares/ares_query.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-targ-
gz/third_party/cares/cares/ares_parse_ptr_reply.c
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-targ-
gz/third_party/cares/cares/ares__read_line.c
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gz/third_party/cares/cares/ares_create_query.c
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gz/third_party/cares/cares/ares_fds.c
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gz/third_party/cares/cares/ares_llist.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/conf/conf_def.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/include/openssl/x509_vfy.h

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/transport/chttp2/server/insecure/server_chttp2_posix.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/mpscq.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/error.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/error_internal.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/pollset_uv.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/unix_sockets_posix.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/slice/slice_intern.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/surface/channel_stack_type.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/surface/channel_init.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/fake/fake_credentials.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/ssl/ssl_credentials.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/transport/pid_controller.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/socket_utils_uv.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/slice/percent_encoding.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/http_proxy.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/ext/filters/client_channel/resolver/dns/c_ares/grpc_ares_wrapper_posix.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/google_default/credentials_generic.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/jwt/jwt_credentials.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/fake/fake_credentials.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/channel/handshaker.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/channel/handshaker.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/ev_poll_posix.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/timer_uv.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/gprpp/manual_constructor.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/backoff/backoff.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/iomgr/combiner.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/fake/fake_credentials.cc
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/grpc_if_nametoindex_posix.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/src/core/lib/security/credentials/jwt/jwt_credentials.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/substitute.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/cycleclock.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/log_severity.h
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/options.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/string_view.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/throw_delegate.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/spinlock.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/string_view.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/strings/internal/iostreamstream.h
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-cpp/absl/base/internal/spinlock_win32.inc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/abseil-
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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/handshake.cc
* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/ssl/s3_both.cc

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* /opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/poly1305/poly1305.arm.c

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*/opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/fips_shared_support.c
*/opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/siphash/siphash.c
*/opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/p_x25519_asn1.c
*/opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/evp/p_x25519.c
*/opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/modes/gcm_nohw.c
*/opt/cola/permits/1096983131_1601931905.64/0/grpc-1-28-0-gem/data-tar-gz/third_party/boringssl-with-bazel/src/crypto/fipsmodule/aes/aes_nohw.c

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1.2729 base-passwd 3.5.39
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Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/SAXBuilderEngine.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderJDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaderSAX2Factory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/XMLReaders.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/AbstractReaderXSDFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/AbstractReaderXSDFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/AbstractReaderXMLFilter.java
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Found in path(s):
* /opt/cola/permits/1135936329_161363824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/contrib/beans/BeanMapper.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/Perf/TimeRunnable.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/xalan/XalanXPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/Perf/PerfVerifier.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/android/TranslateTests.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/Perf/DevNull.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/Perf/PerfTest.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/Perf/PerfDoc.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/xalan/XalanXPathFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/java/JavaXPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/java/JavaXPathFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dtdaware/AttFilter.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/XPath.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar.org/jdom2/output/support/AbstractSAXOutputProcessor.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/JDOMConstants.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/Filters.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/ClassFilter.java

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* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/EntityRef.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/AndFilter.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/Format.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/ContentFilter.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Text.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/DefaultJDOMFactory.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/AttributeList.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/SAXOutputter.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ProcessingInstruction.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOMXPath.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Element.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/DOMBuilder.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Document.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Parent.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/AbstractFilter.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/ElementFilter.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Comment.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/DescendantIterator.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/FilterIterator.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/JDOMParseException.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/filter/NegateFilter.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/SAXHandler.java
* /opt/cola/permits/1135936329_161368824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ contrib/helpers/JDOMHelper.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom/input/sax/TextBuffer.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom/output/XMLOutputter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/Attribute.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/XPathHelper.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/DocType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/JDOMFactory.java

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*/

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/sax/BuilderErrorHandler.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/DOMOutputter.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/ContentList.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/perf/SavingVerifier.java

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/*
Open Source Used In SDWan 20.6.1  30536

Found in path(s):
* /opt/cola/permits/1135936329_161363824.69/0/jdom2-2-0-6-sources-1- jar/org/jdom2/test/cases/TestSerialization.java
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*/

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/test/cases/TestAttribute.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/test/cases/TestElement.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/JDOMSource.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/JDOMResult.java

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*/
/*
* Support methods for Text-content formatting. Should all be protected. The
* following are used when printing Text-based data. Because of complicated
* multi-sequential text sometimes the requirements are odd. All Text
* content will be output using these methods, which is why there is the None
* version.
* ---------------------------------------------------------------------------
*/

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
  jar/org/jdom2/output/support/AbstractXMLOutputProcessor.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/DataConversionException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/adapters/DOMAdapter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/IllegalDataException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/Namespace.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/IllegalTargetException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/adapters/JAXPDOMAdapter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/Verifier.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/adapters/AbstractDOMAdapter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/UncheckedJDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1.jar/org/jdom2/filter/Filter.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/StAXStreamProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/IllegalNameException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/JDOMException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/IllegalAddException.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/verifier/VerifierBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/JDOMLocator.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/WalkerPRESERVE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedDocType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedProcessingInstruction.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/Walker.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/WalkerTRIM_FULL_WHITE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedCDATA.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedJDOMFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/WalkerNORMALIZE.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dtdaware/AttAwareXMLOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dtdaware/AttFilteredXMLOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedComment.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedEntityRef.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedElement.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/located/LocatedText.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestFilterList.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestDocType.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestVerifier.java

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/XSLTransformException.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/input/TestSAXBuilder.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/transform/XSLTransformer.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/scanner/ElementListener.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/scanner/XPathMatcher.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdAttribute.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdDocument.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdElement.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/scanner/JakartaRegExpXPathMatcher.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/ids/IdFactory.java

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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/XPathExpression.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/xpath/jaxen/JaxenCompiled.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JNamespaceAware.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOMCoreNavigator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JElement.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JAttribute.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/xpath/xalan/NamespacePointer.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JParent.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JNodeList.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JNamespace.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JProcessingInstruction.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/util/AbstractXPathCompiled.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/xalan/JDOM2DTM.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JCDATA.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/XMLReaderJAXPFactory.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/dom/JSimpleCharacterContent.java
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* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestComment.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/test/cases/TestNamespace.java

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*/
/*
 * ==---------------------------------------------------------------------==
 * Support methods for Text-content formatting. Should all be protected. The
 * following are used when printing Text-based data. Because of complicated
 * multi-sequential text sometimes the requirements are odd. All Text
 * content will be output using these methods, which is why there is the None
 * version.
 * ==---------------------------------------------------------------------==
 */

Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/AbstractOutputProcessor.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/schema/ValidationError.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/schema/Schema.java

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/internal/ReflectionConstructor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/util/NamespaceStack.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/internal/ArrayCopy.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/StAXEventBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/NamespaceContainer.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/xpath/jaxen/JDOMNavigator.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/stax/DTDParser.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/package-info.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/input/StAXStreamBuilder.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/StAXStreamOutputter.java
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Found in path(s):
* /opt/cola/permits/1135936329_161363824.69/0/jdom2-2-0-6-sources-1-
jar/org/jdom2/output/EscapeStrategy.java
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Found in path(s):
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/DOMOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/AbstractStAXStreamProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/StAXEventProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/FormatStack.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/SAXOutputProcessor.java
* /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/output/support/AbstractDOMOutputProcessor.java
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  * /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/ResultSetBuilder.java
  * /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/TestBean.java
  * /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/JDOMBean.java
  * /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/TestIndexed.java
  * /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/input/scanner/ElementScanner.java
  * /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/DateUtils.java
  * /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/helpers/XPathHelper.java
  * /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/output/JTreeOutputter.java
  * /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/BeanMapperException.java
  * /opt/cola/permits/1135936329_1613638824.69/0/jdom2-2-0-6-sources-1-jar/org/jdom2/contrib/beans/StringConverter.java

1.2747 systemd 237-3ubuntu10.43

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1.2749 xz 5.2.4 1

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jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
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  jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
  jar/io/netty/handler/codec/Headers.java

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jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/compression/Lz4XXHash32.java
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 */

/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 */

* <h3>2 bytes length field at offset 0, do not strip header</h3>

* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.

* <pre>
* | lengthFieldOffset | lengthFieldLength | lengthAdjustment | initialBytesToStrip |
* | 0             | 2                 | 0               | 0                 |
* +-------------------+-------------------+------------------+-------------------+
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-------------------+-------------------+------------------+-------------------+
* | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |
* +-------------------+-------------------+------------------+-------------------+
* | 0x000C | "HELLO, WORLD" |
* +-------------------+-------------------+------------------+-------------------+
Because we can get the length of the content by calling
{@link ByteBuf#readableBytes()}, you might want to strip the length
field by specifying <tt>initialBytesToStrip</tt>. In this example, we
specified <tt>2</tt>, that is same with the length of the length field, to
strip the first two bytes.

Because we can get the length of the content by calling
{@link ByteBuf#readableBytes()}, you might want to strip the length
field by specifying <tt>initialBytesToStrip</tt>. In this example, we
specified <tt>2</tt>, that is same with the length of the length field, to
strip the first two bytes.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
<b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
```

Before decode (14 bytes)         After decode (12 bytes)

```
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

In most cases, the length field represents the length of the message body
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
<tt>lengthAdjustment</tt>. Because the length value in this example message
is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
as <tt>lengthAdjustment</tt> for compensation.

```java
lengthFieldOffset   =  0
lengthFieldLength   =  2
lengthAdjustment    = -2
initialBytesToStrip =  0
```

Before decode (14 bytes)         After decode (14 bytes)

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

In most cases, the length field represents the length of the message body
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
<tt>lengthAdjustment</tt>. Because the length value in this example message
is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
as <tt>lengthAdjustment</tt> for compensation.

```java
lengthFieldOffset   =  0
lengthFieldLength   =  2
lengthAdjustment    = -2
initialBytesToStrip =  0
```

Before decode (14 bytes)         After decode (14 bytes)

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

In most cases, the length field represents the length of the message body
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
<tt>lengthAdjustment</tt>. Because the length value in this example message
is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
as <tt>lengthAdjustment</tt> for compensation.

```java
lengthFieldOffset   =  0
lengthFieldLength   =  2
lengthAdjustment    = -2
initialBytesToStrip =  0
```

Before decode (14 bytes)         After decode (14 bytes)

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
* 
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
* 
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |      | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
* 
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
* 
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
* 
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
* 
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* `<b>lengthAdjustment</b> = 1` (= the length of HDR2)
* `<b>initialBytesToStrip</b> = 3` (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes)                  AFTER DECODE (13 bytes)
  * +--------------------------+      +--------------------------+
  * | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  * | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +--------------------------+      +--------------------------+

* `<pre>`

  * 2 bytes length field at offset 1 in the middle of 4 bytes header,
  * strip the first header field and the length field, the length field
  * represents the length of the whole message</pre>

* Let's give another twist to the previous example. The only difference from
  * the previous example is that the length field represents the length of the
  * whole message instead of the message body, just like the third example.
  * We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
  * Please note that we don't need to take the length of HDR2 into account
  * because the length field already includes the whole header length.
  * `<pre>`
  * `lengthFieldOffset = 1`
  * `lengthFieldLength = 2`
  * `<b>lengthAdjustment</b> = -3` (= the length of HDR1 + LEN, negative)
  * `<b>initialBytesToStrip</b> = 3`

* BEFORE DECODE (16 bytes)                  AFTER DECODE (13 bytes)
  * +--------------------------+      +--------------------------+
  * | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  * | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  * +--------------------------+      +--------------------------+

* </pre>

* @see LengthFieldPrepender
*/

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* <p>
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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.120/netty-codec-4-1-51-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * 
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
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1.2753 device-mapper-multipath 0.4.9 131.el7

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*/opt/ws_local/PERMITS_SQL/1094807042_1601320219.97/0/wildfly-elytron-realm-1-11-4-final-sources.jar/META-INF/maven/org.wildfly.security/wildfly-elytron-realm/pom.xml
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* /opt/ws_local/PERMITS_SQL/1094807042_1601320219.97/0/wildfly-elytron-realm-1-11-4-final-sources-jar/org/wildfly/security/auth/realm/CachingSecurityRealm.java
* /opt/ws_local/PERMITS_SQL/1094807042_1601320219.97/0/wildfly-elytron-realm-1-11-4-final-sources-jar/org/wildfly/security/auth/realm/SimpleMapBackedSecurityRealm.java
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* /opt/ws_local/PERMITS_SQL/1094807042_1601320219.97/0/wildfly-elytron-realm-1-11-4-final-sources-jar/org/wildfly/security/auth/realm/ElytronMessages.java

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1.2755 jcl-over-slf4j 1.7.22.jbossorg-1

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1.2759 aggs-matrix-stats-client 6.8.0

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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* /opt/cola/permits/1141637404_1615091345.13/0/spring-beans-5-1-17-release-sources-jar/org/springframework/beans/factory/annotation/Value.java
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 * Set the @code TCP_MD5SIG option on the socket. See @code linux/tcp.h for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
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* Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
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1.2784 artemis-cli 2.10.1

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  jar/org/jboss/jandex/EmptyTypeTarget.java
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  jar/org/jboss/jandex/Utils.java
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  jar/org/jboss/jandex/PositionBasedTypeTarget.java
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  jar/org/jboss/jandex/MethodParameterTypeTarget.java
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1.2789 maven-antrun-plugin 1.7

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ASN.1 library for Python

As a Python package, it has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

**Features**

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

**How to use pyasn1**

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id        INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0))
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 1))
        )
    )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 'SET' is similar to Python `dict`, 'SET OF' to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
  id=123
  room=321
``` Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
``` Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
...
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
```
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```python
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```python
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```python
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

--------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).
If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
========================

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Abstract Syntax Notation One (ASN.1) <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.
ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>` or `FlatBuffers <https://google.github.io/flatbuffers/>`, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
--------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
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/example-use-case

Download & Install
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/download

Changes
-------

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

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   :maxdepth: 1
License
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Getting help
------------


Books on ASN.1
--------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/Ocsp/OcspClientHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SSlClientHelloHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/AbstractSniHandler.java

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  jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
  jar/io/netty/handler/ssl/PseudoRandomFunction.java
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  jar/io/netty/handler/traffic/TrafficCounter.java
  */opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/NotSslRecordException.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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1.2815 lz4-and-xxhash 1.2.0

1.2816 jackson 2.10.3
1.2816.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.2817 xom 1.2.10

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  <groupId>org.jctools</groupId>
  <version>3.0.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>

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      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>${junit.version}</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava-testlib</artifactId>
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  </dependencies>

  <build>
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        <artifactId>maven-surefire-plugin</artifactId>
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          <includes>*</include>
        </configuration>
      </plugin>
    </plugins>
  </build>
</project>
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<maven.compiler.source>${java.version}</maven.compiler.source>
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<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/ResourcesUtil.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/ByteProcessorUtils.java
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/ResourceLeakTracker.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
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* /opt/para/permits/11111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
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* /opt/para/permits/11111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
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jar/io/netty/util/HashingStrategy.java
* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/internal/LongCounter.java
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* /opt/cola/permits/1111556627_1611276593.27/0/netty-common-4-1-48-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java

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1.2834 jackson-dataformat-cbor 2.8.11

1.2835 jansson 2.9
1.2835.1 Available under license:
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1.2836 simpleclient-common 0.6.0

1.2837 curl 7.29.0 57.el7
1.2837.1 Available under license:
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yassl  http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

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axTLS  http://axtls.sourceforge.net/

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib  http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with
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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

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OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL.
1.2838 spring-boot-starter-json
2.1.16.RELEASE

1.2838.1 Available under license:
No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>

Found in path(s):

1.2839 neo4j-schema 4.1.7
1.2839.1 Available under license:

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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/impl/codegen/server_interface.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar-gz/grpcio-tools-1.34.0/grpc_root/src/compiler/python_generator.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar-gz/grpcio-tools-1.34.0/grpc_root/src/compiler/cpp_generator_helpers.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/support/sync_stream.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/support/status.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar-gz/grpcio-tools-1.34.0/grpc_root/src/compiler/objective_c_generator_helpers.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar-gz/grpcio-tools-1.34.0/grpc_root/src/compiler/objective_c_generator.cc

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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/protoc_lib_deps.py
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/_parallel_compile_patch.py
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_tools/test/BUILD.bazel
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_tools/__init__.py
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_tools/test/protoc_test.py
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_tools/protoc.py
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/testing/zcgzip.cc
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/testing/zcgunzip.cc
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/testing/zcgunzip.cc
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*/
/** TLS server authorization check arguments, wraps
* grpc_tls_server_authorization_check_arg. It is used for experimental
* purposes for now and it is subject to change.
*
* The server authorization check arg contains all the info necessary to
* schedule/cancel a server authorization check request. The callback function
* must be called after finishing the schedule operation. See the description
* of the grpc_tls_server_authorization_check_arg struct in grpc_security.h for
* more details. ***/

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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/stubs/platform_macros.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/stubs/stringprintf.cc
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  1.34.0/third_party/protobuf/src/google/protobuf/stubs/map_util.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-
  1.34.0/third_party/protobuf/src/google/protobuf/compiler/ruby/ruby_generator_unittest.cc
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-
  1.34.0/third_party/protobuf/src/google/protobuf/compiler/csharp/csharp_generator_unittest.cc
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/stubs/template_util_unittest.cc

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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/stubs/template_util.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/stubs/template_util_unittest.cc

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 *
*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

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 *
*/
/** If set, grpc is free to use the HTTP GET verb for sending the request, */

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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/grpc_root/include/grpcpp/test/channel_test_peer.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/grpc_root/include/grpc/impl/codegen/sync_abseil.h

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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/grpc_root/src/compiler/node_generator.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0/grpc_root/src/compiler/node_generator.cc
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/include/grpc++/impl/codegen/client_interceptor.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/include/grpc++/impl/codegen/time.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/include/grpc++/impl/codegen/sync_stream.h
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/include/grpc++/impl/codegen/callback_common.h
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1.34.0-tar.gz/grpcio-tools-1.34.0/grpc_root/include/grpc++/impl/grpc_library.h
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* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/arena_unittest.cc
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/third_party/protobuf/src/google/protobuf/unittest_no_field_presence.proto
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  */opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/load_reporting.h
  */opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/impl/codegen/sync_custom.h
  */opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/support/error_details.h
  */opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/impl/fork.h
  */opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/impl/channel_argument_option.h
  */opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpcpp/impl/byte_buffer.h
  */opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/support/sync_custom.h
  */opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpc_root/include/grpc/fork.h

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: grpcio-tools
Version: 1.34.0
Summary: Protobuf code generator for gRPC
Home-page: https://grpc.io
Author: The gRPC Authors
Author-email: grpc-io@googlegroups.com
License: Apache License 2.0
Description: gRPC Python Tools

Package for gRPC Python tools.

Supported Python Versions

--------------------------
Python &ge; 3.5

 Deprecated Python Versions

--------------------------
Python == 2.7. Python 2.7 support will be removed on January 1, 2020.

Installation
The gRPC Python tools package is available for Linux, Mac OS X, and Windows running Python 2.7.

Installing From PyPI
~~~~~~~~~~~~~~~~~~~~

If you are installing locally...

::

$ pip install grpcio-tools

Else system wide (on Ubuntu)...

::

$ sudo pip install grpcio-tools

If you're on Windows make sure that you installed the `pip.exe` component when you installed Python (if not go back and install it!) then invoke:

::

$ pip.exe install grpcio-tools

Windows users may need to invoke `pip.exe` from a command line ran as administrator.

n.b. On Windows and on Mac OS X one *must* have a recent release of `pip` to retrieve the proper wheel from PyPI. Be sure to upgrade to the latest version!

You might also need to install Cython to handle installation via the source distribution if gRPC Python's system coverage with wheels does not happen to include your system.

Installing From Source
~~~~~~~~~~~~~~~~~~~~~~

Building from source requires that you have the Python headers (usually a package named `python-dev`) and Cython installed. It further requires a GCC-like compiler to go smoothly; you can probably get it to work without GCC-like stuff, but you may end up having a bad time.

::
$ export REPO_ROOT=grpc  # REPO_ROOT can be any directory of your choice
$ git clone -b RELEASE_TAG_HERE https://github.com/grpc/grpc $REPO_ROOT
$ cd $REPO_ROOT
$ git submodule update --init

$ cd tools/distrib/python/grpcio_tools
$ python ./make_grpcio_tools.py

# For the next command do `sudo pip install` if you get permission-denied errors
$ GRPC_PYTHON_BUILD_WITH_CYTHON=1 pip install .

You cannot currently install Python from source on Windows. Things might work out for you in MSYS2 (follow the Linux instructions), but it isn't officially supported at the moment.

Troubleshooting
~~~~~~~~~~~~~~~

Help, I ...

** *** see a**`pkg_resources.VersionConflict` **when I try to install grpc**

This is likely because `pip` doesn't own the offending dependency, which in turn is likely because your operating system's package manager owns it. You'll need to force the installation of the dependency:

`pip install --ignore-installed $OFFENDING_DEPENDENCY`

For example, if you get an error like the following:

```
Traceback (most recent call last):
File "<string>", line 17, in <module>
...
File "/usr/lib/python2.7/dist-packages/pkg_resources.py", line 509, in find
raise VersionConflict(dist, req)
pkg_resources.VersionConflict: (six 1.8.0 (/usr/lib/python2.7/dist-packages), Requirement.parse('six\>=1.10'))
```

You can fix it by doing:

```
sudo pip install --ignore-installed six
```

** *** see compiler errors on some platforms when either installing from source or from the source distribution**
If you see

```
/tmp/pip-build-U8pSr/cython/Cython/Plex/Scanners.c:4:20: fatal error: Python.h: No such file or directory
#include "Python.h"
^
```

compilation terminated.

You can fix it by installing `python-dev` package, i.e

```
sudo apt-get install python-dev
```

If you see something similar to:

```
static const Type kPosMax = SIGNED_INT_MAX(Type); \`
```

And your toolchain is GCC (at the time of this writing, up through at least
GCC 6.0), this is probably a bug where GCC chokes on constant expressions
when the `:code:`-fwrapv` flag is specified. You should consider setting your

Usage
-----

Given protobuf include directories `:code:`$INCLUDE`, an output directory
`:code:`$OUTPUT`, and proto files `:code:`$PROTO_FILES`, invoke as:

```
$ python -m grpc.tools.protoc -I$INCLUDE --python_out=$OUTPUT --grpc_python_out=$OUTPUT $PROTO_FILES
```

To use as a build step in distutils-based projects, you may use the provided
command class in your `:code:`setup.py`:

```
setuptools.setup(  
    # ...
```
cmdclass={
    'build_proto_modules': grpc.tools.command.BuildPackageProtos,
}

# ...
)

Invocation of the command will walk the project tree and transpile every :code:`.proto` file into a :code:`_pb2.py` file in the same directory.

Note that this particular approach requires :code:`grpcio-tools` to be installed on the machine before the setup script is invoked (i.e. no combination of :code:`setup_requires` or :code:`install_requires` will provide access to :code:`grpc.tools.command.BuildPackageProtos` if it isn't already installed). One way to work around this can be found in our :code:`grpcio-health-checking` package `<https://pypi.python.org/pypi/grpcio-health-checking>`_

```
class BuildPackageProtos(setuptools.Command):
    """Command to generate project *_pb2.py modules from proto files."""
    # ...
    def run(self):
        from grpc.tools import command
        command.build_package_protos(self.distribution.package_dir[''])

Now including :code:`grpcio-tools` in :code:`setup_requires` will provide the command on-setup as desired.

For more information on command classes, consult :code:`distutils` and :code:`setuptools` documentation.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: License :: OSI Approved :: Apache Software License

Found in path(s):
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/grpcio_tools.egg-info/PKG-INFO
* /opt/cola/permits/1167929344_1621887425.59/0/grpcio-tools-1-34-0-tar-gz/grpcio-tools-1.34.0/PKG-INFO
1.2851 commons-beanutils 1.6

1.2851.1 Notifications :
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1.2851.2 Available under license :

/*
 * $Revision: 1.3 $
 * $Date: 2003/01/15 21:59:38 $
 * $Date: 2003/01/15 21:59:38 $
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*/

1.2852 jackson-jaxrs 2.4.1

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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